## CIAL TIMES

WEDNESDAY MAY 6 1998

World Business Newspaper http://www.FT.com

Corporate Japan Companies must change to restore economy's health

Page 13



German election More Turks able to vote, but number is still too small Page 2



Working abroad **Executives no longer keen** on an overseas posting John Hunt, Page 22

Digital broadcasting Multimedia maeistrom for home and business Survey

#### WORLD NEWS

#### China hits back after India labels Beijing as main threat to security

China denounced India's defence minister in unusually strong lan-guage yesterday after he had described Beijing as India's greatest security threat - in providing missiles to Pakistan and stockpiling nuclear weapons in Tibet. Relations between Asia's two most populous powers will be an issue for US diplomacy ahead of planned visits by US president Bill Clinton to Beijing in June and New Delhi later this year. Page 14

IMF fears crisis without US cash International Monetary Fund managing director Michel Camdessus med that the IMF could face the worst crisis in its 53-year history if the US Congress were to reject President Clinton's proposed \$18bn contribution to replenish the Fund's resources. Page 4

Indonesian police fire on protest Indonesian riot police fired live rounds as well as rubber bullets in en unsuccessful attempt to quell locting and violent demonstrations in the city of Medan, said civil rights activists. Student protests and public unrest widened this week after President Suharto raised prices for fuel, transport and electricity. Page 6; See Lex

Provoked

Herest

US to probe airline altiances Patrick Murphy, US deputy assistant secretary for aviation, said the government would investigate the wave of alliances involving the country's six largest airlines, to ensure they did not reduce domes tic competition. Page 8

Uister beef gets clean bill Luropean Commission veterinary inspectors gave a clean bill of health to two meat factories in Northern Ireland. The action could lead within weeks to the first exports of UK beef in more than two years. Page 9

Danish strike talks collapse Talks aimed at ending a week-old strike that has paralysed Danish industry broke down with union rejection of a settlement plan from the Employers' Association, intensifying speculation that the government would intervene. Page 3

Vietnam dames bank governor Vietnam's first deputy prime minister, Nguyen Tan Dung, was picked to be governor of the country's central State Bank, Page 6

Greece lets Olympic fly solo Greece's socialist government distanced itself from the crisis at Olympic Airways, the state carrier which is making a last-ditch effort

Westralia shio fire kills four Four sallors were killed and five injured by an explosion and fire in the engine room of Australia's largest naval ship, HMAS Westralia, during trials eight miles off the

China looks to euro reserves China signalled its intention to convert gradually a proportion of its huge foreign currency reserves into euros, once it has judged the new European currency's strength and stability. The European Union is China's fourth-largest trading part-ner. Page 6; Editorial Comment,

New Caledonia accord signed French prime minister Lionel Jospin signed an agreement on the future of New Caledonia, the nickel-rich Pacific archipelago that is one of France's most remote

#### **BUSINESS NEWS**

#### **US 'Goldilocks'** economy set to continue say managers

US economic growth will accelerate in the second half of 1998 and the pace of price increases will slow further, says the National Association of Purchasing Management Members expected overall business conditions to continue to improve while the strong dollar and the Asian crisis would dampen exports. Page 14

Artemis, the holding company of French businessman François Pinault, is set to become the biggest shareholder in Christies International, buying 29 per cent of the auctioneer from Bahamas-based billionaire Joseph Lewis. Page 15; Comment, Page 20

Liffe, the London International Financial Futures and Options Exchange, will today announce plans to launch the first 10-year interest rate futures contract to be denominated in euros. Page 15

Italy is accelerating its privatisation programme. Shares in oil and gas group Eni, Banca Nazionale del Lavoro, Alitalia and Aeroporti di Roma will become available later this year. Page 16.

Pentair, a Minnesota-based diversified company, became the second US group to enter the bidding for Vero, the UK-based electronics and telecommunications industries supplier. Page 20

The world's biggest iron ore producer, Companhia Vale do Rio Doce, is close to announcing the sale of its shareholdings in the Brazilian steel industry. Page 15

Taiwan is likely to overtake Japan as the world's biggest producer of notebook computers this year says I J Lee, president of Twinhead International, Page 17

Grasim, industrial flagship of india's A V Birta group, reported lower at Rs2.6bn (\$65m), Page 17

Meritaliordbanken, the Swedish-Finnish benk, overcame flat net interest income to cost a 67 per cent leap in first-quarter. ore-tax profits. Page 16

Accountancy's senior regulator is to hear complaints against Coopers & Lybrand over its role as auditor to the empire of media magnate Robert Maxwell. Page 10

The Australian state of New South Wales released indicative pricing details for the sale of its betting agency, Tab, expected to raise about AS1bn (US\$644m). Page 17

FKI moved to strengthen its position in the US door and window hardware market with the \$71.5m acquisition of the Allen-Stevens Group. Page 19

British Petroleum is looking at possible investments in Iran, believing that the US may be starting to change its attitude towards Tehran, Page 6

Renault VI and Iveco, the truck and bus units of France's Renault and Italy's Flat, are poised to announce a joint bus development. Page 16

Prices in Venezuela surged by 3.4 per cent in April compared with the previous month. Page 9

**World Equity Markets** The latest trends and data from more

than 50 national markets at a glance

#### WORLD MARKETS

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... \$14.15 47 THE FINANCIAL TIMES LIMITED 1998 No.33,591 Los Angeles · Tokyo · Hong Kong



## Arafat and Netanyahu invited to

## talks in US

Albright says Washington meeting is conditional on settling 'interim issues'

By David Gardner, Middle East Editor, in London

The US has invited Israel and the Palestinians to talks in Washington next week, after failing to get Benjamin Netanyahn, the Israeli prime minister, to agree to a package of proposals to save the Middle East peace process. After two days of intensive and

separate talks in London hotels with Mr Netanyahu and Yassir Arafat, the Palestinian leader, Madeleine Albright, US secretary of state, said the invitation was conditional on the two sides agreeing on "interim issues". These centre on the Israeli

leader's commitment to withdraw troops from the West Bank and hand over parts of its territory to talks on a final peace deal. "We ments in Arab east Jerusalem have a strategic opportunity to put the peace process back on lose it," Mrs Albright said.

far below the more than 30 per Netanyahu agreed to in January 1997, and require his government

The Washington talks would aim to prepare for a final push on the Oslo peace accords, which Israel says it wants. But Mr Netanyahu told Mrs Albright that first he needs backing from his rightwing nationalist cabinet on the US interim proposals, to which Mr Arafat agreed in February.

phased Israeli withdrawal from 13 per cent of the West Bank cent Mr Arafat had expected at this stage - in exchange for increased Palestinian efforts to crack down on Islamist terrorists. It would also commit Israel to the further "redeployment" Mr

and the West Bank. Mr Netanyahu originally sides to refrain from "unilateral track, and we cannot afford to offered only 9 per cent, claiming acts". While this implies a halt to more would undermine Israel's settlement building, it would



The US package calls for a

security. But Western diplomats require the Palestinians and their but as yet no agreement on troop talks with Mrs Albright he moved towards the American figure, and agreed to the further withdrawal provided that Israel alone decided the "quantity and

quality" of territory.

However, he is insisting there be no reference to the US demand the Palestinians, before entering to stop expanding Jewish settle- for a "time-out" on building Jewish settlements. Instead, he is seeking a clause committing both

say that after three rounds of Arab allies to stop organising withdrawals or the handover of votes condemning Israel in the United Nations, and require a pledge from Mr Arafat that he will not unilaterally declare a Palestinian state in a year's time if no final agreement is reached.

Mr Arafat said he was willing to go to Washington but underlined that the US had given him assurances that it would stick to its original proposals, which it has still not made public. The Israeli leader said there

had been "significant progress",

land. "If I'm satisfied Israel's security is protected, then we can close the gaps."

Tony Blair, the British prime minister who hosted the talks, said they had ended neither in a breakthrough nor in a breakinto the final chapter, and people have got to realise that crunch time is coming," he said.

## D-Mark hits three-month highs

Analysts believe Bundesbank will raise rates soon to prove fiscal policy remains tight

By Simon Kuper

weekend's spat over the presidency of the European Central

Nick Parsons, currency strategist at Paribas Capital Markets in London, said the D-Mark's threeyear slide against the dollar was over, thanks to the recovery in continental Europe and the fall of the last hurdles to European economic and monetary union.

The D-Mark jumped 2.7 pfennigs against the pound yesterday to close in London at DM2.941 and rose 0.9 plennigs against the dollar to DM1.773.

highs against the dollar and EU's Brussels summit to let Wim the last details of Emu. pound yesterday, shaking off last Duisenberg run the ECB and through his eight-year term in favour of Jean-Claude Trichet. the French candidate. The consensus was that the deal hurt the credibility of the ECB by letting it be seen as prone to political

> However, Paul Meggyesi, senior currency economist at Deutsche Morgan Grenfell in London, said the horsetrading over the ECB presidency had "reflected rather worse on the political protagonists than it has on the European currencies".

Many economists had forecast The summit, although domithe German currency would suf- nated by the split, helped the point rise in Danish rates as a The D-Mark hit three-month fer from the deal struck at the D-Mark by sorting out some of foreboding of further rate

The contours of an Emu with then stand down midway 11 founder members starting on January 1, 1999 are now clear. Investors are leaving the dollar. Swiss franc and pound - former safe havens from Emu - and returning to D-Marks.

Also supporting the D-Mark is the growing belief in the market that the Bundesbank will raise interest rates soon. Many strategists say the ECB row itself has boosted prospects of a rate increase. They argue that the bank will want to prove to sceptics that European monetary policy remains tight.

increases in northern Eu even though Denmark will not be

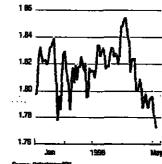
joining Emu and can therefore

set its monetary policy in isola-Adding to prospects of higher European rates, strategists pointed out that most of the members of the ECB board chosen this weekend, including Mr Trichet, are interest rate hawks. Goldman Sachs said: "We expect a 25-basis-point rise in the Bund-

latest." By contrast, few strategists two-day meeting today. expect the Federal Reserve, the

esbank repo rate by July at the

#### Against the D-Mark (DM per S)



England to raise interest rates soon, given that US inflation is almost non-existent and the UK economy is slowing down.

The Bank of England's monetary policy committee starts its

+ 64 %

US central bank, or the Bank of Bundesbank doubts, Page 2

## Yeltsin boosts role of prime minister

President Boris Yeltsin vesterday boosted the powers of Sergei Kiriyenko, his new prime minister, allowing him to take more decisions directly by bypassing the presidential administration.

After a meeting with Mr Kiriyenko in the Kremlin, Mr Yeltsin said he had signed a decree simplifying the procedure for issuing prime ministerial resolutions. It grants the prime minister "more rights and more responsibility".

Previously, all government resolutions had to go through the bureaucracy of the presidential apparatus. "The long path along which a document would wind its way was two kilometres," Mr

Now it will be simpler, essentially giving more power to Mr Kiriyenko. "[He] will sign a resolution and that's it," said Mr ity for his actions before the president and the country, he added. The move gives Mr Kiriyenko, 35 - plucked from obscurity last

month after less than a year in

government - a freer hand in

as prime minister. be to tackle the sluggish bureau- reforms. He has replaced Mr cracy that has slowed every Chernomyrdin's team with techreform initiative to date rather nocrats, mostly young, and cut than relinquish the formidable the number of deputy prime minpowers of the president and his isters from nine to three.

apparatus. Key decisions, particularly those relating to economic policy, will be always be cleared

with the president. The "opportunities the Kirlyenko government has received are a significant advance on those of the previous government", Sergei Yastrzhembsky, the presidential spokesman, said. Analysts were cautious in their

appraisal of Mr Yeltsin's latest move. "The government has gained a little more freedom. On the operative level it will be easier." said Andrei Piontkovsky. director of the Moscow Centre for Strategic Studies. He added that it was only the

latest development in a perpetual jockeying for pre-eminence presidential administration

Mr Yeltsin announced the decree as part of his plans for a new streamlined government. "The old government was like a Yeltsin. Mr Kiriyenko would broken staircase including the have to bear greater responsibil- prime minister, his deputies, ministries and departments," be said. "Now there will be no departments...There will be ment administration will be

Mr Yeltsin dismissed Mr Cherday-to-day decisions than Victor Chernomyrdin, his predecessor nomyrdin and his cabinet on March 23 for losing impetus in Mr Yeltsin's main aim seems to pushing through economic

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Full contents and Lex back page

of which: River transport Modular buildings

Operating income

Group net income

Shareholders' equity

Consolidated results for the 1997 financial year ■Sharp rise in net income: + 300 %

- Growth in activity: + 50 % **■ Operating income:** + 56 %

■ Dividend: + 50 % CONSOLIDATED RESULTS (in FRF million) Change (%) 228 + 50 % + 63 % + 26 % 25 + 56 % + 300 %

Total assets 309 + 83 % 66 F Earnings per share + 312 % The board of directors of TOUAX SA met April 9, 1998 and reviewed the consolidated accounts of the paren company and group for the 1997 financial year. RISE IN GROUP EARNINGS IN 1997

In 1997, TOUAX Group recorded strong growth worldwide across all its business lines for the second year in succession. This was reflected by a 56 % rise in operating income to FRF 39m.

Moreovor, TOUAX Group completed a second asset securitisation transaction (modular buildings) in December 1997 for an amount of FRF 215m, generating significant capital gains, and subsequently registered a sharp growth in its business managing equipment on behalf of institutional investors, with a 46 % rise in modules under топодетелі.

#### PROSPECTS

In 1997, the Group continued to enjoy strong growth workwide, with the aim of consolidating its position as one of the top leasing companies in each of its three main business lines. In 1998, the Group is planning to acquire companies and complementary equipment stacks, with a large majority being purchased and then sold to private or institutional investors within the framework of asset securitisation transaction or equipment management

#### PARENT COMPANY RESULTS AND PROPOSED DIVIDEND

Net income for the 1997 financial year was FRF 14,2m, up from FRF 5,9m in 1996. At the Annual General Meeting to be held at 3,00pm, on June 25, 1998 at 5 rue Bellini-Puteaux, La Défense, the board of directors will propose distributing to shareholders FRF 9,3m an increase of 50 % from 1996.

The net dividend per share will be FRF 9 against FRF 6 in 1997, to which is added a tax credit of FRF 4,5 i.e., a total of FRF 13,50 per share. The coupon should be paid on July 7, 1998.

TOUAX is quoted on the Paris marché du Comptant (SICOYAM Code : 3300). Price April 21, 1998: FRF 301,90, up 60,6 % against the start of the year.

**NEWS DIGEST** 

Chirac likely to suggest

President Jacques Chirac is expected to suggest to Chancellor Helmut Kohl that Jacques Delors, the former Euro-

pean Commission president, should head a study into reform

Mr Chirac first publicly broached the idea on television las

Sunday night, in an apparent desire to counter criticism that

by forcing a compromise over the European central bank

presidency he had spoiled the birth of the euro. Only yester.

Elysée officials said yesterday the idea of a Delors group

would be out to Mr Kohl at the Franco-German summit which

**Delors heads study** 

day did he sound Mr Delors out on the idea

victim

## WORLD NEWS

## Tietmeyer raises doubts on ECB deal

By Wolfgang Münchau in Frankfurt

2

Hans Tietmeyer, president of the German Bundesbank. last night broke his silence on the controversial compromise over the presidency of the European Central Bank. casting doubt over the credibility of the new single European currency in international financial markets.

dinner in Frankfurt, Mr Tietmeyer said: "Not everything

**Chubais** 

threat

ally faces

of prison

By Chrystia Freeland In Moscow

Russian prosecutors have charged Alfred Kokh, a for-

mer deputy prime minister.

with embezzlement, raising

the stakes in one of the

country's highest-profile cor-

Mr Kokh, a close ally of

Anatoly Chubais, the former

finance minister, has been

charged with misappropria-

tion in a complicated real

estate deal through which he

allegedly acquired an apart-

Moscow's deputy prosecu

tor said other former high-

ranking members of the

Chubais team would soon

Analysts said the prosecu-

tion against Mr Kokh, who

faces a maximum jail term

of 10 years if he is convicted,

was an escalation of the

fierce battle between Rus-

sian political clans which

has raged for nearly a year. Mr Kokh now heads the

Moscow-based Montes Auri investment company.

tor's office said that because

of the charges Mr Kokh had

been barred from leaving the

country, but a Moscow radio

station reported that the ex-

minister had already left

in Russia's privatisation pro-

gramme, rising to head the

privatisation ministry last

year. He was closely

involved in the shares-for-

loans sell-offs, a complicated

privatisation scheme which

allowed banks close to the

most coveted companies at

Last autumn, shortly after

Mr Kokh's resignation from

the government, the former

minister was embroiled in a

He and a group of other

officials, including Mr Chu-

bais, received \$90,000 each

for contributing to a book

about privatisation. The book has not yet been pub-

The high fees and allega-

tions that the publishing

venture was funded by Oneximbank, a powerful

financial group close to Mr Chubais, badly damaged the

reformers' reputation in Rus-

Last week, a Moscow court

lournalist who said the pub-

lishing fee amounted to a

threat to Kokh," said Andrei

Centre for Strategic Studies.

in the battle between Chu-

bais and Berezovsky," he

said, in a reference to Boris

Berezovsky, the influential

ment post last week.

This is the latest episode

'This is very serious

bargain prices.

lished.

An official at the prosecu-

face criminal charges.

ruption scandals.

ment in Moscow.

that happened last weekend short of attacking all the ele-signalled readiness to plus and accelerating eco-board nominations will have in Brussels contributed to ments of the agreement embrace the "time-sharing" nomic growth in the euro no serious effect on the marthat the euro will be a really supranational and depoliticised currency."

Mr Tietmeyer's comments underline the irritation inside the Bundesbank about the deal, under which the Dutch banker Wim Duisenberg is appointed to a full eight-year term, but will retire "voluntarily" after approximately four years. But Mr Tietmeyer stopped economists also yesterday strong current account sur-

the necessary expectation reached at the Brussels agreement between Mr Duis-European Union summit. He enberg and Jean-Claude said the choice of members of the ECB's six-strong executive board was "to be viewed favourably overall". In particular, German central bankers and economists welcomed the appointment of Otto Issing, the Bundesbank's chief economist, to a

full eight-year term.

take over the presidency after Mr Duisenberg retires. Hermann Remsperger, chief economist of BHF Bank, said: "It may take some time to forget what happened last weekend, but people will soon focus on the

Senior German banking real economic issues, the

Norbert Walter, chief econ-Trichet, governor of the Bank of France, who is to criticism of the term-sharing deal as "unqualified gossip". He said Germany was in part to blame for the debacle because of the way Mr Duis-

enberg's candidacy had originally been handled. Meanwhile, analysts over-

whelmingly agree that the

 The legal services departomist of Deutsche Bank, ment of the European Parlia-defended the compromise as ment is expected to present

The analysis was requested by the parlia-

"sensible" and described an analysis of the ECB deal to leading MEPs today, Michael Smith adds from

ment's Socialist group and others and is expected it to

#### opens this evening in Avignon. But they stressed it was only an idea at this stage, and even with German approval it would go no further until at

of European Union institutions.

**EU REFORM** 

other EU members had been consulted. Mr Delors is understood to feel there is scope for a group of wise men, drawn from various member states, to set out alternative scenarios on Europe's future. The euro has largely followed the precise blueprint laid out in a 1989 report by an earlier Delors committee composed largely of central bank governors, David Buchan, Diplomatic Editor

#### **GREEK TELECOMS**

#### Plan for early liberalisation

Greece plans to liberalise fixed-line voice telephony on Jan 1. 2000, a year earlier than scheduled, provided that OTE the telecoms operator, makes sufficient progress with digitalisms its network, a senior government official said yesterday.

The government is under pressure from the European Com mission to hasten telecommunications liberalisation. Two private cellular networks operate in Greece but little progress has been made on opening up data transmission and satellit services, while cable television has yet to be introduced. Because of delays in signing procurement contracts, only about 50 per cent of OTE's network has been digitalised. "Once 70 per cent of the network is digital, OTE would be in a position to accommodate new entrants," the official said. "Under the current timetable, that will take about another

Greece has lagged behind its European partners in liberalising its telecoms infrastructure and implementing EU directives. Although an independent telecoms regulatory authority was set up last year, it is not yet able to issue licences to new operators. Kerin Hope, Athens

#### FRENCH DEFENCE CONTRACT

#### Private shipyard wins tender

The French defence ministry has set a precedent by preferring a private shipyard to the state-run naval dockyards (DCN) in an open tender.

Although the tender was for small-scale repairs on a naval supply vessel, it nevertheless underscored the ministry's determination to seek value for money in competitive blds when its budget is pruned back.

The winning bid from the civil group Technitas was to repair the vessel in four months at a cost of FFr11.2m (\$1.8m) - half the price and almost a third quicker than the DCN. The naval dockyards' initially offered to do the work for FFr35m, which was scaled down to FFr23.3m.

But another tender for a second vessel, the oceanographic ship Jules Verne, damaged in the same accident, went to the DCN despite its bid being more costly in time and money. Technitas pledged to do the work in 13 weeks for FFr4.3m against DCN's 15 weeks at FFr5.7m. Highlighting the difference in costs and productivity

appeared to be a deliberate move by the Socialist-led govern ment to warn unions who are threatening industrial action to prevent the run-down of naval dockvards at Cherbourg, Brest, Nantes and Toulon. The message is that survival defends on being able to com-

pete better with the private sector. Robert Graham, Paris

#### SPANISH ECONOMY

#### Benchmark rate cut to 4.25%

intervention rate (%)

formal incorporation into the European single currency by trimming a further 0.25 percentage points off its benchmark interest rate to a new low of 4,25 per cent. Jose María Aznar, prime minister, said the reduction was "a reward to all Soaniards for having fulfilled our duties and obligations". It was the second quarterpoint reduction in the centrai bank's securities repurchase rate this year. Its decision not to make a bigger cut, bringing Spain's

The Bank of Spain yester-

day greeted the country's

zone, was seen as underlining its prudent stance in the light of a possible resurgence of inflation. The move, immediately followed by cuts in major banks' prime lending rates, continued an uninterrupted downward

official rate closer to the expected level for the future euro

trend which began in late 1995, when the benchmark rate stood at 9.25 per cent.

Unions and employers' organisations were urging another rate cut after inflation figures which showed consumer prices unchanged overall during the first quarter of the year, with a year-on-year increase of 1.8 per cent. But the Bank of Spain acted in line with expectations by waiting until after the EU summit, David White, Madrid

#### SPANISH SOCIALISTS

#### Leadership functions divided

Spain's Socialist opposition has agreed on a compromise settlement to divide leadership functions between José Borrell, its newly elected candidate for prime minister, and Joaquin Almunia, the party secretary-general who was defeated in last month's candidacy contest.

Mr Almunia, who succeeded former prime minister Felipe González in the party post less than a year ago, has withdrawn his threat to resign - a move which would have required an extraordinary party congress to appoint a new

Under the deal, Mr Borrell will have a separate team to put organise his candidacy and will play the lead role in partiamentary debates, although Mr Almunia will remain in charge of the partiamentary party. The Socialist programme for the next election, due by early 2000, is to be set by a committee 🏚 with Mr Almunia acting as chairman and Mr Borrell as "co-or-

According to an opinion poll conducted after Mr Borrell's nomination as candidate and published by El Mundo, the Socialists have narrowed the gap with Spain's ruling Popular party to less than two percentage points, against almost six points in January. David White

## Murder adds to Vatican's troubles

By James Blitz in Rome and William Hall in Zurich

Vatican officials were yesterday trying to establish the motive for the murder of the newly appointed head of the papal Swiss Guard and

The killings come at a time of growing doubts over the future of the guard, responsible for protecting popes for nearly 500 years.

The captain-general of the Guard, Alois Estermann, and his Venezuelan wife, Gladys Meza Romero, were murdered in their Vatican apartment late on Monday evening, apparently by a lance-corporal in the guard, Cedric Tornay, who later killed himself.

Mr Estermann, who like all the guards was a Swiss national, had been appointed to his post only 10 hours before the shootings took place. He was well known in Italy as one of several guards who attempted to shield the Pope during the attempt on his life in 1981.

The official Vatican main export was its merce-spokesman said yesterday nary fighting men, and the that Tornay had been censured by Mr Estermann, at that time acting head of the Guard. on February 12, because of an "unjustifiable" absence from night duty.

The killing represents a severe problem for the Vatican, which spent more than six months looking for a new head of the Guard. It has proved difficult to

recruit the right calibre of young soldiers to work in what is seen as a low-paid job a long way from home. In what is believed to be his last interview, with the Rome-based I-Media religious news agency. Mr Estermann acknowledged the problem. 'It is partly explained by the rather difficult economic situation in Switzerland, but also by the fact that service to the Church is less attrac-

The 100-strong Guard is the world's smallest standing army and dates from a other candidates came fortime when Switzerland's

tive than it was a few years

Vatican was not only a pastoral power, but a state which needed defending. Soldiers must be at least 5ft 9in, unmarried and of "irreproachable character".

Recently, would-be recruits have been put off by the level of pay and are less prepared than their predeces sors to accept the tight discipline and old rituals of the army and the Vatican. Beards are frowned on and soldiers must return to barracks before midnight. Though in the past the job of

eted by leading noblemen. the younger Swiss Catholic aristocracy are more interested in making money than serving the Pope. Estermann came from a farming family and though the Swiss government is believed to have been willing

to more than triple the SFr40,000 (\$27,000) a year commander's salary, no



Swiss Guards marshal tourists at the Vatican yesterday

french bank European Commission Green Light for Latest Package now Looks increasingly Likely

## Crédit Lyonnais rescue in sight

By Andrew Jack in Paris and Samer iskandar in Brussels

Officials in Brussels and Paris will breathe a sigh of Mr Kokh played a key role relief on May 20 if, as is now increasingly likely, the Europosed rescue package for Crédit Lyonnais.

A veto by the Commission. into bankruptcy, was beginweeks leading to last week- aid - will be judged. end's European summit in Brussels.

A dramatic conclusion was averted only at the last minute, after the intervention of controversial publishing Jacques Santer, president of the Commission

A solution to the Crédit Lyonnais conundrum was never going to be easy. Even when the first rescue

(\$7.5bn) came up for exami-

nation in 1995, it was by far would meet regardless. With branches or subsidiaries. should be met with an equiv-the largest state-aid case the current information it. This will undoubtedly be alent increase in the pain investigated by the Commission. The value of the new package now being debated is for at least twice that amount.

pean Commission gives a As Karel Van Miert, Euro-bridged last weekend, was green light to the latest pro-pean competition commission over the sacrifices Credit sioner, prepares for his final is probably the case more possibly driving the bank than any other on which he - and the work of the EU early days, by the Commis- per cent, equivalent to asset international regions. Asia of state

Frustrated by the long delays by the French government to requests for infor- in terms of tangible assets, mation, and the apparent high-handedness of certain officials. Mr Van Miert's temper has become increas-

ingly short. an ultimatum: either France portfolio of loans?" came up with a new set of plan, evaluated at FFr45bn proposals by the end of the sion has insisted on sales of accepted the Commission's French stock market flota month, or the Commission

had, it would almost certainly rule against the plan. The central difference between Paris and Brussels, which seems to have been

Lyonnais should make in year in his job during 1999, it exchange for additional aid. The complexity of the case was also exacerbated, in its

ce in the

banking field. "When we asked for asset sales, we would be thinking said a Commission official. "The value of a steel mill, for example, is easily quantifiable in terms of production capacity. But how do you At the start of April, he set evaluate an offer to sell a

> As a result, the Commisphysical assets: bank argument that this doubling

mise, likely to focus on FFr620bn in asset sales. ranges of activities (investment banking, commercial banking) and geographic divisions (Asian activities,

European subsidiaries). in the 1995 plan, the bank Instead, Mr Van Miert would was required to reduce its commercial presence in fice in one of Crédit Lyon-Europe outside France by 50 nais' other two high-profile

After the more recent discovery that accumulated losses were several times higher than originally thought, Brussels argued that the total value of state aid in the Crédit Lyonnais rescue could now reach FFr190bn.

approaches FFr100bn. The and transparent". This French government has now should pave the way for a

reflected in the final compro- imposed on the bank: The Commission came round to the French view

that the bank would not be

viable without its London and Luxembourg operations. accept an equivalent sacri-

Another disagreement broned out was overprivatisation, which, both parties agreed, would take place before end of 1999. This week, Mr Van Miert

showed willingness to drop his insistence on a sale to the highest bidder, as long At the lowest estimates, it as the transaction was "open

## Germany's election bypasses 2m voteless Turks

Citizenship restrictions based on ancestry leave foreigners disaffected and excluded from politics, writes Lucy Smy

rejected a libel suit brought by Mr Chubais against a the country's 2.1m resiresult of restrictive citizenship laws, little changed since a 1913 law ruling that Piontkovsky, head of the only those who can prove German ancestry may be 160,000 ethnic Turks have the right to vote.

> wryly, an improvement on the 30,000 eligible to vote at the last general election in 1994 thanks to some changes based on length of residency. "It is not a big number but critical mass, and the parties are beginning to recognise the Green party. "It will be

the first election in German history in which there will be a serious campaign to reach non-Germans. The issue of citizenship relief by the state election in Saxony-Anhalt last month. The swift rise of the was based on an intensive

support in other less affluent regions in Germany. It may also herald a shift and its Bavarian sister party the Christian Social Union

law proposed by the opposi-

more than 10 years.

think this time there is a seldom used in commercial that," says Cem Ozdemir of appear ahead of September's general election. For the children and

has been thrown into sharp them holds limited appeal. extreme-right German lived all their lives. They People's Union (DVU) to probably speak better Gertake 13 per cent of the vote man than they do Turkish. right. "When a party can anti-foreigner campaign. The result has raised fears that the extreme right could win

Adnan Başağa, at the in attitude by the ruling Turkish embassy, cautiously Christian Democratic Union- agrees. "There is an integration problem which stems right back to the beginning as they try to claw back of the arrivals of the Gastarground from the DVU with a beiter. There is an inclinaism or extreme movements. always find some support in young Turkish society but whether it is stronger than before you cannot say."

You cannot win either way, complains Mr Ozdemir. "We are accused of not integrating and they [the government] use non-integrated youth to fuel the argument against a change in the law or dual citizenship."
Ulas Atā, a politics student

who has lived in Germany for 18 years, says: "I find it a great injustice that I have lived here for so long and I don't have a vote because I don't have a Blutrecht [blood right]. The DVU's support is dangerous protest vote. But this has been encouraged by the other parties, the CDU and CSU, because they have divided people into Inlander and Auslander (natives and foreigners)."

Mrs Cornelia Schmalz-Jacobsen, the government's spokesman on the affairs of foreigners, voiced her concern about the rise of the far campaign with a 'send home not lie only in Saxony- not." Anhalt,"

ment following the Saxony- for the Turkish vote, how-Anhalt election which said ever small. "We will be placthat policy on foreigners was ing advertisments in Turknow at the centre of the ish in Turkish language general election campaign. newspapers here." The statement was a



"false signal", she said. Forsa, the German polling organisation, says it has no idea which way the Turkish voters might vote. Manfred Guliner says: "The number is too small. Forsa asks citiforeigners' slogan in a state zens which way they will Kurdish nationalism or with only 1.8 per cent for vote but we don't ask them eigners, then the reason does whether they are German or

> Mr Ozdemir says the She rejected a CSU state- Greens will be campaigning But Michael Donnemeyer,

the SPD campaign manager is more ambivalent, saying: "We would hope to reach these voters with our normal campaign." It is however a campaign that includes some relaxation of the naturalisa-The one thing the main-

stream parties agree on is that there will be more pressure for the law to change after the general election. In fact, the rise of the far right may serve to speed a change. "It is one of the things we

would do very quickly," says Leyla Onur, the SPD's Turk-

financier who won a govern-FINANCIAL TIMES
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t is election year in Ger- tougher line on immigration tion towards fundamentalmany - but not for most of and citizenship. Already this year they have voted down a dents of Turkish origin. As a relaxation of the citizenship

tion Social Democratic party. Without citizenship or the right to vote, Turkish residents have become increascounted as citizens, only ingly disaffected. They are the biggest ethnic group of the more than 7m foreigners It is, notes one of Ger- and more than half of them many's two Turkish MPs bave lived in the country for

At a casual glance their impact on popular culture has been limited to the ubiquitous doner kehab shops. Identifiably foreign faces are advertising or the political advertising beginning to

grandchildren of the original Gastarbeiter, or guest-workers, of the 1960s, a Germanic culture that has rejected "The majority is growing up without citizenship in a country where they have And they are turning to Turkish nationalism or Islam or fundamentalism. It is dangerous," says Mr Ozde-

## Copenhagen may intervene to end strike

Talks aimed at ending the strike which has paralysed Danish industry for more than a week broke down yesterday after the Confederation of Danish Trade Unions (LO) rejected a settlement plan put forward by the Employers' Association.

The failure of the two sides to agree intensified speculation that the government would intervene before the end of this week and ask parliament to impose a set-

On Monday Poul Nyrup Rasmussen, prime minister, urged the two sides to find a colution within 24 hours.

The two sides had called in the state industrial relations mediator after inconclusive talks on Saturday.

"The conflict will continue until the employers realise that we are serious," said Hans Jensen, chairman of

Yesterday 30,000 shop assistants and 15,000 electricians were locked out by their employers. A total of more than half a million union members, a fifth of the total workforce, have

stopped work. The dispute centres on pay and holiday entitlements. Employers said they would concede one extra day off a year, but the unions want at least two extra days off, plus two days off for parents to

care for sick children. The collapse of the talks has increased political pute continued. This could uneasiness about the poten- result in the loss of 160

the Amsterdam treaty on closer political co-operation between EU countries.

Newspapers which are still publishing are speculating that a parliament-imposed settlement might cause bad temper and discontent, leading to an increase in the No

An opinion poll last week showed the margin of support for the treaty narrowing to less than 8 per cent, half the margin suggested by surveys earlier this year.

The latest poll showed 42.0 per cent in favour, 34.3 per cent against and 23.7 per cent undecided. In a further move, the

country's central bank yesterday raised its discount interest rate from 3.5 to 4.0 per cent. Marianne Jelved, minister

for the economy, said the increase could be seen in the light of the strike and uncertainty about the outcome of the referendum.

• Saab Automobile, the Swedish carmaker, said yesterday it would temporarily lay off up to 4,000 workers from Monday due to a shortage of Danish components caused by the strike. Saab was forced to stop car production two days ago. Greg McIvor writes from Stock-

Meanwhile, Volvo warned that its assembly of trucks, which rely on Danish-made components, would be halted from next week if the distial impact of the conflict on trucks per day.

## Dutch party leaders limber up as poll fails to quicken pulse

Choice the voters make today will help set the economic path of a core participant in monetary union, writes Gordon Cramb

prime minister, ment is shifting leftward.
tugged manfully at a Mr Kok's social democr rowing machine. Frits Bolkestein and Jaap de Hoop Scheffer, his two main rivals, respectively wielded a tennis racquet and jogged on a treadmill. At an event convened last month by the country's heart foundation, each wanted to show he was fit for government.

Fitness in the eyes of the voters will be decided in a general election today. This follows a campaign which has by no means quickened the national pulse.

As a series of inconclusive televised debates wound up and photo opportunities dwindled, the lunchtime news on the state-owned network yesterday devoted not a moment to domestic or European politics. But the choice the Dutch

will make, as the first Euro- Kok formed in 1994. The peans to vote since the single currency became a certainty, will help determine the economic course of a core participant in monetary

im Kok, the Dutch union. And electoral senti-Mr Kok's social democrat

favourite and should add a good handful of seats to its present 37. Including a doubled, or even trebled, parliamentary presence for Green Left and the anti-Emu Socialist party - two previously fringe groupings left stands close to 50 per

the 1972 election, which brought in the government of Joop den Uyl, regarded as the reddest coalition the Dutch have seen.,

The likely improvement in the left's tally, which had been below 45 per cent for the previous 15 years, comes despite the apparent implosion of D66, junior partner in the three-party coalition Mr reformist democrats are expected to lose about half their 24 MPs.

Els Borst, health minister and D66 leader, has said that three national partners. In tral Bank for Wim Duisen-

PvdA enters the contest as not only end the term as foreign minister of Hans van Mierlo, her party predeces needed buffer between the PvdA and Mr Bolkestein's free-market liberal VVD.

The eurosceptic Mr Bolkestein, who declined a cabitotal prospective vote for the net place when his party entered government under Mr Kok, declared his candidacy for the premiership late last month. Failing that, he aspires to the foreign or economic affairs ministries.

> Though the two parties may together gain a majority in the 150-seat lower house, few believe a leftright grouping would be sta-Green Left is on course for

at least 10 seats, and has declared itself ready to govern. Following municipal elections in March, it sits on Amsterdam city council in a rainbow coalition with the Green Left 7 seats 7 seats

which also includes the

Under Mr de Hoop Scheffer, the CDA, ousted from power in 1994 for the first time since the second world war, has been repositioning the older and poorer, who are discontented with Mr Kok's welfare reforms.

As Mr Bolkestein puts it, "the CDA has aligned itself in social policy on the left of the PvdA". Those two parties governed together in 1989-94 and could do so again, though with the PvdA

on top this time. Mr Kok, who held the finance ministry in that cabinet, has salvaged a term of sorts at the European Cen-

Rotterdam it features, berg, once a PvdA finance instead of D66. in an alliance minister. The two were teamed in the second half of Mr Duisenberg's 16 years at the Dutch central bank.

Their combination of labour market intervention and financial discipline created hundreds of thousands itself to capture votes from of jobs and cut the public sector budget deficit to below half the Emu norm. It was dubbed the Dutch miracle or, more personally, the "Wim-Wim scenario".

Today, and in the coalition negotiations which will follow. Mr Kok must save his own job. There too, he knows he will need to compromise. That is what he does best, say supporters and detractors alike. He has expressed the wish for a more socially conscious face

to his next administration.

But his firmest pledge. designed to sway those straying to the VVD. was minority of homeowners. Full deductibility of mortgage interest payments at the top marginal tax rate "is good, and should stay," he said, "as long as I am prime

minister.' Many in his party think this is being too generous to the advantaged, but are concentrating efforts on defending social security benefits against further erosion.

Internal discipline in the style of the UK Labour party under Tony Blair - who was feted when attending a PvdA rally in Rotterdam last Friday - has helped eradicate an opinion poll lead the VVD much of the cabinet term.

## Athens allows 'market' to rule at state airline

ment yesterday distanced has complained in the past itself from the crisis at Olympic Airways, the lossmaking state carrier which agement. Olympic's chief is making a last-ditch effort executive and board of directo restructure. The government has pres-

ented Olympic's restructuring as a test case for reforming loss-making public sector corporations.

A senior official said the airline's management would he left to "implement a costcutting programme and find new sources of financing without any interference from the government."

Greece's cabinet is divided over whether Olympic doned plans to cut loss-makshould shut down but Yannos Papantoniou, the economy minister, says: "Market forces will decide."

Given its cash flow problems, Olympic is not expected to survive for more than a few months unless the government reverses its position have to shut down immediand instructs a state- ately if the pilots and cabin controlled bank to provide crews staged another strike. emergency financing.

First-quarter losses are projected at more than earn some cash over the Dr5bn (\$16m), one analyst said. More than 600 out of chance of working out a deal 7,000 employees have with the government and the resigned since the restruct- European Commission that uring was announced, fearing they might be sacked vival."

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without compensation if the airline is declared bankrupt. of political interference in

the airline's day-to-day mantors are appointed by the transport minister. The Socialists also have close ties with Olympic's unions. Olympic's board of directors on Monday night over

turned two important provisions of a cost-cutting plan approved by parliament last month. The board agreed to extra overtime payments for pilots to avert cuts in the flight schedule during the tourist season. It also abaning international routes in response to a strike threat by cabin crews.

Theodoros Tsakirides, Olympic's chief executive, threatened to resign if the proposals were not accepted. He claimed the airline would

One official said: "If we manage to keep flying and summer, there's a better will ensure the airline's sur-

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resources. It's like a doctor

giving medicine: for a time,

Mr Camdessus said he was

optimistic the present eco-

nomic reform programme in

This was because the Indo-

nesian government had seen,

through the failure of two

earlier programmes, the

high cost of postponing such

strategy, they will stop it."

And prospects for a suc-

Chairing the opening ses-

cessful outcome to the talks,

diplomats agree, look bleak,

sion on Monday, Bonaya

Godana, Kenyan foreign

minister, berated both sides

with their failure to modify

stances adopted at the end of

inconclusive talks last Octo-

ber. Neither, he said, had

shifted on two key issues:

separation of religion and

state, and southern self-de-

regards an Islamic constitu-

tion recently promulgated in

the north as a new obstacle

to agreement, while the gov-

ernment still rejects a map

introduced by the rebels at

the last talks which expands

their territory to include key

With the SPLA apparently

oilfields in Unity province.

convinced it can win the

civil war on the battlefield

ting table, many aid workers

fear the Nairobi talks will

end without agreement and

Khartoum will promptly

rescind its latest flight order,

leaving Bahr el Ghazal's pop-

"The general feeling in the

ulation once again staring

opportunity that could close

at any moment. So we're try-

said a Nairobi aid-official.

ing to fly as much into Bahr

famine in the face.

"This is just a public rela- aid community is that this is

rather than at the negotia-

The SPLA, analysts say.

termination.

it creates more pain."

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The International Monetary Fund could face the biggest crisis in its 53-year history if the US Congress rejected Washington's proposed \$18bn contribution to replen-

ish the Fund's resources.

Michel Camdessus, IMF

managing director, warned

tion's request for the contribution following the IMF's recent multi-billion-dollar bail-outs for Indonesia. Thailand and South Korea. But ment wants something, you

has indicated strong opposition to the plan, citing growing international criticism of human rights abuses in Indonesia.

Mr Camdessus, speaking in Melbourne en route to Washington from Singapore. acknowledged his concern about delay of the US contribution, but said he still hoped it would be approved. The congressional wrangle The US Senate last month over the proposal should be approved the administra- put in perspective, he said. "In the House of Representatives, you have the traditional practice of linking issues, so when the govern-

the House of Representatives attach to the bill something the government doesn't want at all, for example the abortion bill. Then you have complicated negotiations between the White House and factions of Congress." don't want to misallocate

Mr Camdessus also defended the IMF from criticism that it had been too harsh, particularly on Indonesia, which is struggling to comply with economic reform demands attached to the IMF-negotiated \$43bn bail-out package. On Monfuel subsidies increased the price of fuel more than 70 per cent, triggering warnings of further social unrest.

implementation of the proincreased, they are still far gramme they agreed with below international levels, Mr Camdessus added. "This had to be corrected if you

Stanley Fischer, the IMF's first deputy managing director, sald in Washington on Monday that the economies of Indonesia, Thailand and South Korea could start to turn the corner towards the of this year or early

But there were risks. "The recurring weakness of the Japanese economy is a fact that has to be borne in

A further risk was the pos-

Camdessus warns on 'biggest crisis' for IMF Egypt business The removal of fuel subsi-dles was "indispensable" and though prices have sarply improved that are sibility of a rise in interest they know the only effective thing for them is to stick to tries were the "prime determinant of capital flows to developing countries. "If there is a period of sustained

> sis countries and the developing countries in general." Referring to increased speculation over interest rate rises in the US and Germany, Mr Fischer said there was "no reason to believe a sustained interest rate increase" was on the cards. But he added: "It's on the

increases in interest rates.

that could make the situa-

tion more difficult in the cri-

## leaders to boost Israeli links

Egyptian business leaders aim to turn Israeli public opinion against the policies of the Israeli government by strengthening Arab ties with Israeli organisations determined to save the Middle East peace process.

Thirty leading Egyptian business people and professionals have set up the Cairo Peace Movement (CPM) aimed at forging direct links and co-ordinating educa-tional and cultural exchanges with Israeli mod-

They hope to diminish Israeli suspicion of Arabs and the Arab states, encouraging support for the peace process within Israel.

The CPM has drawn its guiding principles from an agreement signed by Arabs, Israelis and others in Copenhagen in January 1997, committing all sides in the Middle East to settling the Arab-Israeli conflict through dialogue.

The CPM has been approved by the Egyptian government, and has the specific support of Osama al-Baz, President Hosni Mubarak's main interlocutor with

"The real battleground for peace is inside (srael, not Egypt," said Salah Bas- in 1991 and the ensuing Oslo siouny, CPM chairman and a former Egyptian ambassador to Moscow. "Arab public opinion supports peace. While I think Israeli public opinion in general does so too, we want a revival of in an Israeli company when public interest in the peace process itself." The CPM Koor Industries. aims to attend a peace con-

ierence in Israel next month. Egyptian officials have for more than a year been considering ways of appealing directly to Israeli public opinion, and seeking ways of preventing impressions of the Arab world being filtered solely through increasingly belligerent Israeli government statements.

'We are working definitely within the Egyptian position [on the peace process] and defending this stance, as well as defending the Palestinian position," Mr Bas-Reuters- stourny said.

#### Israel spending bias attacked

Israel's State Comptroller erday criticised Benjamin Netanyahu's coalition government for spending a disproportionate amount on religious parties white discriminating against others. especially Israel's Arabs and the elderly, writes Judy Dempsey in Jerusalem.

Mirlam Ben-Porat said the government spent too much money keeping the coalition logether. The housing ministry, for example, which is controlled by the religious parties, built homes mainly for constituents while the ultra-Orthodox Yeshivot, or religious schools, inflated the number of students to win more money.

"But we won't be negotia ting with the Israeli government [on Egypt's behalf]. We don't want any subsidy from the [Egyptian] government and will be supported by leading business people in

The CPM has attracted support from Egyptian business people who had hoped to strengthen commercial ties with Israel following the launch of the peace process agreements.

Just over a year ago. Ibrahim Kamel, chairman of the Kato industrial group, became the first Egyptian he bought a stake in israel's

Hopes that such ties would be strengthened have been shattered since the Israeli government of Benjamin Netanyahu built new Jewish settlements on Arab land and refused to abide by agreements to withdraw troops from territory to be administered by the Pales-

tinian Authority.
Plans by the World Reconomic Forum to hold a fifth annual Middle East and North Africa economic summit to strengthen Arab-Israeli business ties this year have been cancelled because of the peace process impasse.

## Sudan aid flights scramble to deliver food while peace is in the air

Aid workers believe they have only a short by UN officials, who said it time to make the most of a break in the conflict, writes Michela Wrong

neighbours hobble a bull, last of a herd that last crisis, those who moved once numbered 40, and cut to other areas found food its throat with a spear. Nor- and water. Now there is no mally, he would only slaughter one of his cattle, precious riage or celebration. But his children are hungry and he cannot afford to wait.

In the village of Ajlep in Bahr of Ghazal, the southern Sudanese province worst hit by insecurity and drought, the Dinkas have touched rock bottom. "The commulevels of distress," says Mawiir Nyok, a local relief

Frontières. hundreds of attempt to punish the rebels. mothers, their breasts withered, cradle skeletal babies

listless with malnutrition. Sheltering under trees from the scorching sun and the umbrella aid operation driving dust storms, Giacom- grouping UN and private etti like stick figures hold hands imploringly to mouths allowed to use five wide-hodor rub sunken stomachs. At jed aircraft and several the local market, tiny piles of dried beans and peas are the only edible items on sale. zal.

For four years, cultivation was impossible because of the devastation wreaked by Kerubino Kwanyin Bol, a local warlord backed by the northern Islamic governntty is moving to the final ment. Mr Kerubino rejoined the southern Sudan People's Liberation Army (SPLA) in worker. "They are eating January, and villagers say the last things they they have now "forgiven him. But that still leaves Pre-famine signs heralding Bahr el Ghazal at the mercy thousands of approaching of Khartoum, which has deaths abound. At a feeding restricted or banned entirely

> At the weekend Khartoum gave in to international pressure and announced that Operation Lifeline Sudan, agencies, would in future be smaller planes to drop food and seeds over Bahr el Gha-

escape. The crisis is the product of status symbols, for a mar-failed rains and a 15-year war in which both sides have ruthlessly used hunger to further their ends.

centre run by Médecins sans aid flights to the area in an

would allow most of the estimated 350,000 people at risk to be saved, while still leaving the huge task of rebuildgor Thicp watches as like this," says Mr Mawiir. ing a destroyed farming economy to a level where it could see through the lean months without outside

> help. "With five flights we can start saving lives," says Jason Matus, food economy officer for World Food Programme. "But the situation did not need to deteriorate to this level."

But the Sudanese of the south are more sceptical. The timing of the announcement, a day before a new round of peace talks between Khartoum government and the SPLA were about to open in Nairobi, has not gone unnoticed.

aving suffered a series of military defeats and with its economy in crisis, the government is on the defensive and playing for time. The sudden magnanimity on aid flights, SPLA members say, is aimed at winning sympathy abroad and increasing pressure on the rebels to declare a cease-

flights doesn't serve their

tions exercise," said a top a very narrow window of official, "Khartoum wants a ceasefire so they can prepare a new offensive. If they feel the new situation with el-Ghazal while we still can."

A woman and child await aid supplies at the Alien air strip in south Sudan. The crisis is the product of failed rains and a 15-year war in which both sides have ruthlessly used hunger to further their ends

WORLD TRADE

## BP ready to invest in |Investors | Think-tank fends off attacks Iran if US line eases

British Petroleum is looking but it wanted to see enough to large-scale foreign investat possible investments in be starting to change its attitude towards Tehran. John Browne, BP's chief

- which recently opened an office in Tehran - was looking at exploration and production projects and investments in fran's petrochemical sector.

But he said there was one fran: "We would like to see some progress on the Iran-Libya Sanctions Act (llsa)." the main vehicle for unilat-position. eral US sanctions aimed at restricting international investment in Iran's oil and on the reformers in Tehran natural gas industry.

the politics of the US-franian conserver relationship "fluctuated ments." from month to month" but to see some change in Wash-

consider investing in Iran progress "so perhaps some ment. Many companies normalisation of relations believe President Bill Clin-

BP is especially sensitive pared to be more flexible to the issue of investing in over investments in Iran, executive, said the company - Iran. Although the company traces its origins to the country, it withdrew from government. Iran after the 1979 Islamic BP also has extensive

is the single biggest producer of crude oil and the largest foreign investor. Mr Browne said BP "won't do anything to upset" its US

Any investments by BP are also thought to depend gaining the upper hand in Mr Browne admitted that their power struggle with conservative religious ele-

international oil company interest in Iran has sion on whether to punish increased in recent months

US may insist on keeping

call on Malaysia struggling oil and gas sector

By Sheila McNulty In Kuala Lumpur

ton's administration is preespecially if these reinforce the reformist elements in the But executives say US con-

gressional resistance has proved a complicating factor. interests in the US, where it In late March Thierry Desmarest, chief executive of Total, the French oil company, said congressional opposition was the only obstacle to the US administration dropping its threat to impose unilateral sanctions on Total and its partners Petronas of Malaysia and Gazprom of Russia. The three companies are developing the offshore South Pars

gas field in the Gulf. A much delayed US deci-Total and its partners is ingion." BP did not require as a result of ambitious expected later this month.

# to open up

A group of US investors in south-east Asia has commended Malaysia for relaxing some restrictions on foreigners but has urged the authorities to go further.

"If you really want to... get some of the high quality, long-term, high-tech investors in here, you have got to go all the way," said Ernest Bower, president of the US-Asean Business Council, in an interview yesterday. To attract much-needed foreign investment as the

regional financial crisis slows its economy, Malaysia has raised its limit on foreign equity in telecom companies to 61 per cent from 49 per cent, but only for five years. It has also given foreigners a five-vear deferment to comply with a new limit of a 51 per cent holding in insurance companies - down from 100 per cent in at least the case of American Inter-

national Group. "We would like to be here as full participants in the market," Mr Bower said. He

Bower welcomed the steps taken. But other Asean member countries, such as Thailand and Indonesia. have shown more readiness to liberalise as they restructure their economies.

own companies will be overrun by foreign competition. Malaysian foreign minister, US-Asean Business Council panel's decision would set a that the steps taken would the 65 years of the bank's State department officials had precedent for other los be enough to attract foreign

#### on US anti-dumping laws A prominent US think-tank acted from highly protected vesterday defended US anti-"sanctuary" markets, and foreign governments supdumping laws, saying the worst accusations of unfairported over-production.

ness had already been Controversy has for years addressed by legislation surrounded the laws allowimplementing the Uruguay ing the imposition of tariffs round of trade negotiations. on companies found to have Further changes proposed "dumped" their goods in US by critics of the antimarkets at what is deemed dumping regime - such as by US government agencies to be unfairly low prices. exceptions when supplies are short - were "merely Critics see them as "the last thinly veiled attempts to vestige of protectionism" eviscerate anti-dumping used by domestic companies

laws," said Greg Mastel to counteract lower tariffs

He argued that such laws US anti-dumping procedures.

of the Economic Strategy agreed in international nego-Institute in a book Mr Mastel admits there has been valid criticism of

economy where companies gress should be given a 10- torical, legal, moral and ecoyear test period, he said. "A variety of interest groups, including foreign governments and companies. importers and laissez-faire economist are tireless critics of anti-dumping law," he

> "As they often admit, their first preference would be abolition of anti-dumping laws, but they recognise that abolition is not a politically realistic option." Instead, they propose changes which would "fundamentally compromise the basic principles of anti-dumping laws - they are wolves in sheep's cloth-

ing~ Mr Mastel argued that anti-dumping duties.

nomic case for the continued application of such laws". Without them the US eronomy "would be ravaged by mercantilistic national strat egies" emanating from Asia Protectionists in Congress would gain the upper hand, and far worse damage would ensue to the world's trading

Anti-dumping affected no more than 0.5 per cent of US imports between 1980 and 1993, and in most years the level was far lower. Only about 44 per resulted in the imposition of

## US Eximbank chief goes on African investment safari

James Harmon, US Export-Import Bank chairman, the first senior US government official to follow up President Bill Clinton's 12day African tour, returned to Washington last week determined to challenge Europe's trade negemony in sub-Saharan Africa.

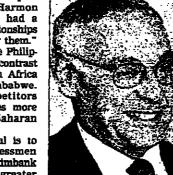
released yesterday in

Washington.

Officials and businessmen in Namibia, South Africa and Zimbabwe were pleased to see him, and for good reason. "Leaders come with great words. We come with money," Mr Harmon told them.

This is not something Africans are used to hearing from Eximbank, which has been focused in recent years on Asia and Latin America. Although Eximbank is open for business in 18 sub-Saharan countries, Mr Harmon is visited southern Africa in history.

"Europe is ahead of us in



James Harmon: 'Leaders come

Small Business Association.

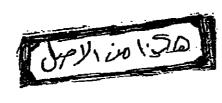
be needed in telecommunications and energy. He met officials of the South Africa Foundation, a fund which pays for toll roads, airports, harbours and other infrastructure projects.

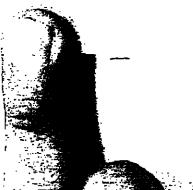
"We're looking at some very big projects," Mr Har-mon said, although he declined to name the pro-

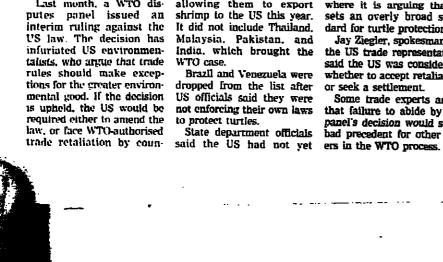
Airlines and airports also offer opportunities. Apart from one direct flight between New York and Johannesburg, most American travellers must fly first to Europe to reach southern

Africa Mr Harmon discussed fleet modernisation with Air South Africa Airways and medium-range regional aircraft with Air Zimbabwe.

"There are several things we have to follow through on," Mr Harmon said. "This is tust the beginning. We have to put the people in the market and stay the course."







disputed shrimp law

The US may choose to face negotiate a settlement, if it loses a World Trade Organisation case involving shrimp fishing.

At issue is a US law that bans imports of shrimp from Last month, a WTO distalists, who argue that trade WTO case. rules should make exceprequired either to amend the to protect turtles.

exports. Since the WTO's strengthened disputes procedures took effect, no losing defendant in a case has so far opted for a settlement based on trade retaliation.

This week the State countries which do not have Department granted laws protecting sea turtles. approval to 39 countries. allowing them to export putes panel issued an shrimp to the US this year. interim ruling against the It did not include Thailand. US law. The decision has Malaysia. Pakistan. and infuriated US environmen- India, which brought the

Brazil and Venezuela were tions for the greater environ- dropped from the list after mental good. If the decision US officials said they were is upheld, the US would be not enforcing their own laws

that the law is hurting their remained in effect.

dard for turtle protection.

or seek a settlement. Some trade experts argue

Jay Ziegler, spokesman for the US trade representative, said the US was considering whether to accept retaliation

that failure to abide by the

decided whether to appeal. In the meantime, the law Charlene Barshefsky, US

trade representative, has criticised the WTO decision, saving there are exceptions in WTO rules to protect human, animal or plant life. However, the Clinton administration has its own challenge to the law in US courts where it is arguing that it sets an overly broad stan-

spoke on behalf of the Washington-based council, whose representatives are in Malaysia for discussions with government and business heads. The council has for several years called on Malaysia to open its markets and Mr

Malaysia remains con vinced, however, that if it opens its markets too quickly and too broadly its Abdullah Ahmad Badawi. said after speaking to the the first chairman to have

terms of trade and export assistance." Mr Harmon noted. "They have had a long history of relationships and it's paid well for them." US exposure in the Philippines is \$2.6bn. By contrast it is \$158m in South Africa and \$109m in Zimbabwe. Eximbank's competitors have six to 10 times more exposure in sub-Saharan

His immediate goal is to tell African businessmen and bankers what Eximbank can do. "There is greater opportunity than I expected. There is also greater challenge." he said.

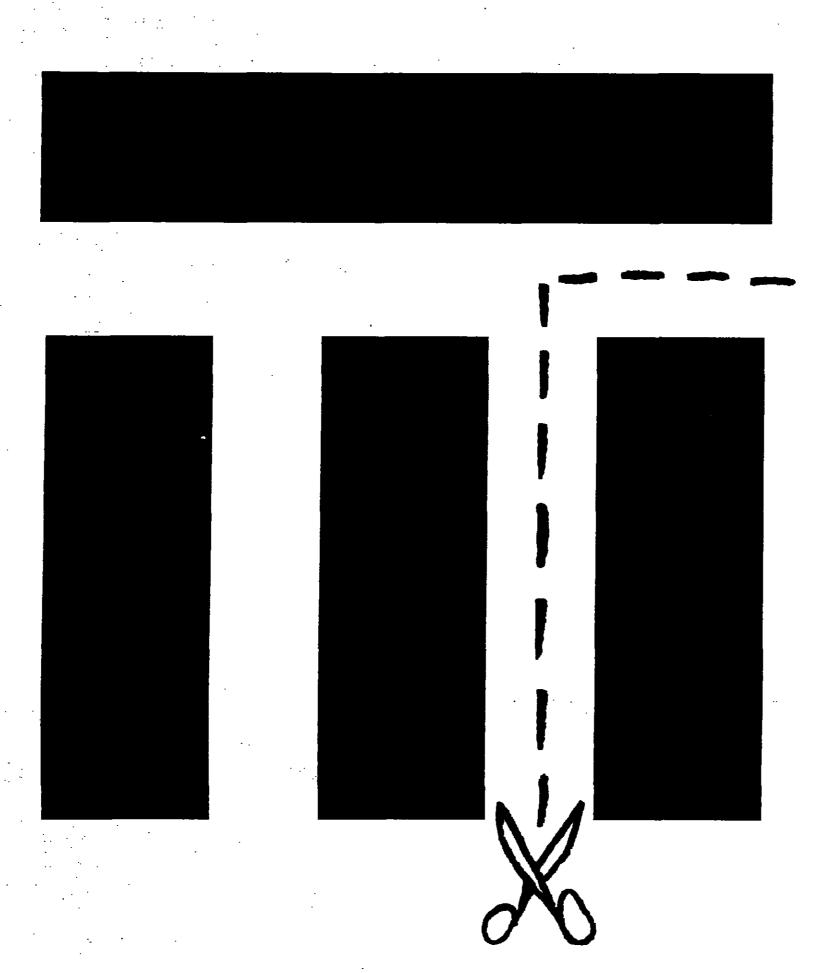
One emphasis will be on small business, which comprises more than 50 per cent of the economic activity in the region. Eximbank is considering assisting African is scope for developing tourbusinessmen who want to set up US fast food and coffee house franchises and need loans for equipment. In South Africa, he discussed the possibility of making fin- guides, and the other accou-



With its natural beauty and exotic animal life, there ism. Those countries haven't marketed themselves," said Mr Harmon. "There's opportunity for marketing firms." And hotels, resorts, taxis, ancing available through the trements of tourism.

FINANCIAL TIMES WEDNESDAY MAY 6 1998

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**Swiss Re** 

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## China may use euro in reserves

China yesterday signalled its intention gradually to convert a proportion of its huge into euros once it has judged the strength and stability of the new European currency.

The Economic Daily, an official government-owned newspaper, said the launch of the euro should facilitate trade relations with the European Union, China's fourth largest trading partner, by reducing currency risks and other transaction

About 60 per cent of China's \$140bn foreign exchange reserves is denominated in dollars, while Japanese yen and German marks each make up about 15 per cent of reserves, the newspaper

As the euro emerges as a hard currency to rival the US dollar, international central banks will convert a portion of their foreign exchange reserves into the European currency, the report continues, and China in accordance with the stability of the currency, needs to increase our euro reserves appropriately and the weighting of our foreign

expected that 40-50 per cent of global financial assets would be denominated in US dollars and between 30-40 per cent in euros. The rest will be held in Japanese yen and other currencies.

However, the article reinforced China's cautious approach to the new currency: "In the short term there are still some risky factors associated with the authorities in our country should study the impact of

Zong Liang, a researcher at the centre of international finance at the Bank of China, one of China's big four state banks, said that the euro's launch was likely

> In turn, this would raise the competitive pressure on Chinese banks operating in the global marketplace, as they had no immediate possibility of merging, he said.

to lead to an increase in the

number of European bank

'In the short term there are still some risky

factors associated with the euro'

Mr Zong added that China might also start to balance its current focus on purchasbonds by buying more state bond issues denominated in euros in the future, if the new European currency proved stable.

 China's central bank yes terday announced it would open the country's local currency interbank market to eight foreign banks, a fur-In the future, the report ther step in the slow but gradual liberalisation of the financial services industry in

Officials said the move underlined the government's commitment to market opening despite turmoil in Asian markets over the past year. China did not think the Asian financial crisis should slow the pace of opening up, said Wang Qinhuai, an official with the research euro...so the relevant department of the China Foreign Exchange Trade System, which overseas the

## Tung determined to stay on course through the storms

Despite signs that squalls are unlikely to abate, Hong Kong's leader tells John Ridding that he remains resolute

hwa, the former shipping chief at the helm of post-colonial Hong Kong. Asia's financial turmoil soon swept aside the honeymoon of last July's handover. Rows have flared over the freedom of speech and the rule of law.

With legislative elections due this month, and mounting redundancies deepening the economic gloom, the squalls are unlikely to abate. But despite the trials, Mr Tung is determined neither he, nor Hong Kong, will be blown off course.

"We have faced a number of unexpected crises," says Mr Tung, in an interview. referring to the regional turmoil and health scares ranging from lethal chicken flu to toxic red tides. "I think we have responded very firmly, very clearly." Although critics cite a failure to be firm enough in upholding Hong Kong's autonomy, Mr Tung believes "good solid beginning".

More at ease than in the days ahead of the handover. Mr Tung lists achievements since. The one country, two

t has been a tough 10 underpinned the Sino-British it is necessary. At the end of months for Tung Chee- treaties has taken root. Bei- the day we will be leaner and more competitive." jing has been supportive, but Popularity, however, has It has also kept its distance. The currency link to the US been sapped by this pain.

dollar has been defended and The feelbad factor and an unemployment rate of 3.5 economic strategy remains per cent and climbing are partly to blame for a slip in "Other countries may have Mr Tung's support. A poll had to scale back their ambitions", he says. "We have published last week by the gone ahead with huge Apple Daily gave him a 60 investments in infrastrucper cent satisfaction rating. down from nearly 70 per ture, housing and educacent in the initial post-hand-To some in the investment over period.

He says the administration community, such stimulus and Mr Tung's "flexible" has coped well with the many challenges it has approach to property supply faced, citing the chicken flu outhreak and the decision to smacks of unwelcome intervention. But the chief execuslaughter the territory's tive says the investments are necessary to sharpen Economic affairs and competitiveness. While he

health scares, however, are only part of the picture. wants property prices to stabilise, Mr Tung insists the government is not getting in More fundamental, argue critics, is that Mr Tung has not been firm enough in defence of the "two systems" ment, nor will it scale back plans to raise home ownership from about 50 per cent concept which promises to 70 per cent by 2007. autonomy for Hong Kong. "Residential prices have

Martin Lee, leader of the already come down 35 per Democratic party, cites the chief executive's delayed cent and office property valdefence of the governmentues have come down 40 per cent to 45 per cent, all funded broadcaster in a row within four months," he over press freedom and

rule of law. These centred on necessary to replace the cona government decision not to cept of the Crown from preprosecute Xinhua, one of handover laws and to clarify Beijing's main offices in the territory, for an alleged breach of privacy laws, and fears that the government's "adaptation bill" - which transfers legal rights from British to Chinese institutions - places mainland bod-

ies above the law. "We deeply regret the passage of the amendment," says Justice, the Hong Kong section of the international commission of jurists. "The amendment undermines the

rule of law." Mr Tung rejects such fears. "Nobody is above the law, neither the chief executive nor mainland enterprises," he says. The adapta-

where laws bind the sovereign and the state. Perceptions of such cases

are crucial. Few issues are more sensitive for Hong Kongers than fears of favouritism. The rule of law is as much a part of economic competitiveness as the lowering of Hong Kong's

"I know the determination is still there to protect our system," says Vincent Lo. chairman of Shui On, the property group, echoing others in the business commu-

He expresses confidence in the continued operation of

politician, is proceeding unfettered with her suit against Xinhua. Political opponents remain unconvinced, however, and have made the rule of law a centrepiece of election cam-

Those campaigns are now in full swing. While only 20 of the 60 seats will be a whole, itself a source of criticism, pro-democracy forces and other government opponents appear set to swell their ranks in the leg-

islature. Mr Tung is unfazed by the prospect. But a more restive hamber and the aftershocks of regional recession, sug-gest the going for the chief

## Vietnam bank chief faces reform tasks

The Vietnamese authorities have nominated Neuven Tan Dung, the first deputy prime minister, to be governor of the State Bank, the central

The job has been vacant for seven months while the authorities tried to find a candidate prepared to take on the job of reforming the troubled banking sector. Mr Dung, 49, is one of the

Many of the shops are owned

by ethnic Chinese, a minor-

ity widely resented for their

relative prosperity. About 58

civilians and 20 police were

wounded during rlots on

impressive political pedigree. Since last September, he has been the right-hand man of the prime minister. Phan Van Khal, with special responsibility for economic management. He will keep argue that Vietnam's banks his position as first deputy National Assembly approves

his nomination, as expected,

after debate tomorrow. assembly surprised the new

ers, and comes with an attempt to appoint the incumbent, Cao Si Klem, to a further five-year term. He had faced growing criticism following banking scandals.

The International Monetary Fund and World Bank require urgent reform to ensure continued economic growth in an increasingly difficult regional climate.

The last publicly available Last September, the official figures produced by ssembly surprised the new the World Bank indicated

overdue. Most are held by the main four state-owned commercial banks, which are politically obliged to continue lending to loss-making state companies.

There are also worries about the health of some 50 small private or "joint-stock banks". Three joint-stock banks are known to have had liquidity problems over the past year; the State Bank arrested, including bankers not in place, despite being

per cent of all loans in Viet- out. Last week, Mr Dung commercial banks. nam's banking system were repeated the government position that weak banks should be merged or closed. Foreign bankers in Hanoi. with some 13 per cent of the loan market, complain of a ing their competitive edge

> banking sector, arising from the unresolved scandal surrounding collapse of a group of private companies in Ho Chi Minh City last year. More than 70 people were

Since the scandal emerged. foreign bankers say the State Bank has subjected them to a blizzard of regulations, many aimed at reduc-

Efforts to establish a local ged down, while a proposed new electronic payments system funded with \$49m of World Bank money is still at the city's state-owned under discussion since 1994.

## Indonesia police fire live bullets at students

Indonesian riot police fired live bullets yesterday in a vain attempt to quell looting and anti-government student emonstrations in the city of Medan, according to civil rights activists.

One activist in Medan, a city on the island of Sumatra, said she had collected metal bullets from the scene of several riots in the past two days, confirming reports from other witnesses who said police had shot at rioters with more than the usual rubber bullets. Earlier this week General

Wiranto, the powerful defence minister and chief of the armed forces, ordered his action" if students moved their protests off campus. It transport and electricity. was the toughest army warning yet to the students.



against President Suharto looting and torching shops. have been inspired in part by his decision this week to raise prices for fuel, public

The demonstrations intensified in Medan as bystand-The violent protests ers joined in and started Monday.

filled an important pledge to have been peaceful. the International Monetary Fund and paved the way for the release of a \$1bn standby credit on Monday.

progress twice in the coming two months before releasing two similar tranches. The World Bank, Asian Development Bank and hilateral donors are expected to follow with their own aid offers.

However, the riots in Medan raise the prospect that growing domestic unrest may frustrate government efforts to reform the economy and stabilise the

rupiah. Student leaders, business executives and diplomats said the army might use the Medan riots and their negative impact on the value of the rupiah as grounds for cracking down on all student

But the military's response sistent, highlighting what from operating on campus, diplomats say is a split in have reappeared in a matter the armed forces. Police fired rubber bullets at peaceful students in the capital on Saturday, but yesterday troops escorted students

march in southern Jakarta. The Medan riots also indicate that an army crackdown could backfire. Some witnesses said reports of police harassing female students had enraged bystand-

ers as much as fuel prices. "We never had an issue to unite us until Krismon." said Hakim Hatta, a student leader, using a popular indonesian acronym for monetary crisis. "This has made our co-ordination more

Indonesia's student move-

thy by regular arrests of stu-dent leaders and a ban on to protests has been incon- nationwide student groups

of weeks in universities Mr Hatta, a law student whose Pijar student group focuses on building student from four campuses on a networks, said student activists had gone underground after a crackdown in 1996 but kept in contact. Some

ioined inter-campus study

These informal contacts are enough to co-ordinate protests, but student leaders concede their organisation may yet prove too weak to withstand an all-out crackdown. "We don't have one leader." one activist sald. "We are still waiting for the one who is ready to stand in front. It could blow up and we could just have anarchy."

**NEWS DIGEST** 

HONG KONG STOCK MARKET

#### Margin trading claims second HK brokerage

Hong Kong's falling share prices and the unregulated practice of margin trading claimed a second victim yesterday when Fortuxe Securities, a small brokerage, requested a suspension

of trading activities after its major shareholder went miss Client accounts at Fortuxe will effectively be frozen. although clients with the requisite proof of ownership can sell their shares through other brokerages. The move added to the littery sentiment surrounding smaller brokers since the collapse of CA Pacific in January. These brokers, already under attack from international houses and expanding technology, have been suffering from dwindling turnover and weak

Police, working in conjunction with the stock exchange and the Securities and Futures Commission, are investigating Fortuxe. However, it appears its troubles stemmed from margin trading, whereby clients put up only a portion of the value to buy stocks, a practice prevalent among Hong Kong retail investors. Louise Lucas, Hong Kong

**AUSTRALIAN EXPORTS** 

#### Increase in Korean cover

Australia said yesterday it would increase short-term insurance cover provided to exporters to South Korea by AS200m to A\$500m (US\$333m). The credit scheme, originally established in January for three months as part of the government's Export Finance and Insurance Corp (EFIC) national interest account, has been extended for a further three

The government had set aside A\$70m of the increased funds for new beef and horticultural exports to Korea, Tim Fischer, trade minister, said. South Korea is Australia's third largest beef market and its second largest export market after Japan, worth A\$7bn a year. Reuters Canberra

NORTH KOREAN DIPLOMACY

#### Kim to visit Beijing

Kim Jong-il, the reclusive North Korean leader, will visit Chins in the autumn for his first overseas visit since taking the reins in Pyongyang, a Japanese dally reported yesterday, citing Chinese government sources.

Mr Kim is expected to meet President Jiang Zemin of China and tour factories. The trip comes as Mr Kim seeks greater international support for his famine-threatened regime. Beiling's backing of Pyongyang weakened after China estabthed diplomatic relations with South Korea in 1992, it said. Mr Kim last visited Beijing in June 1983. Reuters, Tokyo

PHILIPPINE INFLATION

#### El Niño blamed for increase

Philippine inflation rose to a 20-month high of 7.9 per cent in April, up from 7.3 per cent in March, according to government figures. Economists blamed the rise on the effects of the El Niño weather phenomenon, which has ravaged agricultural production, particularly in the southern region of Mindaneo.

Food, the biggest component of the price index, increased by 1 percentage point to 5.5 per cent. After 2.8 per cent growth last year, the farm sector will contract by 1.5-3.5 per cent in 1998 because of El Niño, according to the University of Asia and the Pacific. The rise of inflation follows a benign inflationary picture in the aftermath of the Asian crisis. The government is aiming for inflation of 7.5-8.5 per cent for the year. Justin Marozzi, Manila

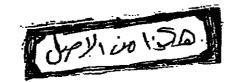


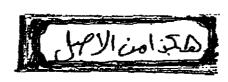
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## Banking study to delay Canada reforms

The Canadian government is on financial institutions was from entering the market, likely to delay promised legislation to allow foreign banks to establish branches directly in the country, and is linking the issue with the part of a package.

Eliminating that barrier politically charged question of whether Canada's banks interview last month that can and European negotiashould be allowed to merge with one another.

Jim Peterson, Canada's secretary of state for financial institutions, said vesterday the legislation would be

report of a national taskforce has discouraged some hanks issued. The decision on particularly for large-scale branches, he said, was part corporate lending that of the merger question and needed to be looked at as

the measures would come no later than the end of June. Under current law, foreign banks must establish fully capitalised subsidiaries in requires access to the parent bank's capital base.

tors in last year's successful conclusion to the financial services agreement in the World Trade Organisation. Canada is obliged to allow

held back until after the Canada. This requirement later than June next year to ficy of protecting its banks meet its obligations under from foreign buyers by the WTO agreement. Mr Peterson said Canada

tional commitments despite the delay, and suggested the government would consider allowing foreign branches to engage in retail as well as wholesale banking. sale banking.

The national taskforce is expected to make recommendations on the bank mergers and on whether Canada order to set up branches in direct foreign branching no should lift its 30-year-old pol-

insisting bank shares be widely held. Four of Canaannounced plans to merge, approved by the finance minister, Paul Martin.

Mr Martin said in an interview last month that the benefits of the mergers ber one objective in Canada remained to be proved and insisted there was He said the banks had an absolute necessity to maintain a reasonable level

the overriding principle.

The delay is likely to anger foreign banks. Bob Vastine, president of the US would honour its interna- da's five largest banks have Coalition of Service Industries, which represents US but these must still be financial institutions on global trade issues, called the decision a big disappointment. He said that from the banks' perspective the numwas to establish branches. worked and hoped for this

> cesses for building aircraft." Boeing is using design and manufacturing software developed for its 777 sircraft. Lockheed Martin is counting on its record as long-term supplier of fighter jets, including the F-16. "We know how to build fighters which can last 40 years,' says Frank Cappuccio, Lockheed's JSF programme man-

ager in Fort Worth, Texas. As in most defence procurements, politics will come into play: many jobs ride on the JSF decision as well as on existing programmes more advanced than the JSF but still in early production

Lockheed is leading, with Boeing as a partner, the costsion to cost \$28m in 1994 dollier F-22 air superiority lars, excluding R&D, and the carrier version \$38m. This is stealth fighter now approaching full production, cheaper than most comparable aircraft and means makand it is still making the ing trade-offs between per-F-16. Boeing is producing the F/A-18 E/F Super Hornet for formance and cost from an the US Navy. Both compa-The Pentagon's approach nies are involved in prois spurring manufacturers to grammes to develop

modernise their production unmanned aerial vehicles. processes. Bidders submit no The competitors have to paper drawings, but discs containing their threetread a fine line, as they do not want to disadvantage dimensional designs down to their other products in pushing the JSF programme, The Pentagon will judge which they may not win and the competing aircraft not which, like all military procurements, risks being

scaled down or delayed. "Our strategy is not to sell them one versus the other." says Boeing's Mr Mulally. "You're not going to hear us say the JSF solves everything. It's a fabulous product but we're trying to work with the customer to figure keep this aircraft affordable out how it fits in with the

NEWS DIGEST

Service of the servic

**AIRLINE ALLIANCES** 

#### Washington plans inquiry over competition worries

The US government said yesterday it was launching an investigation (nto the recent wave of alliances among the country's six largest airlines.

Patrick Murphy, deputy assistant secretary for aviation, told senators the alliances had raised fears that competition on domestic flights would be reduced.

Describing the alliances as "nothing less than a major transformation of the industry", Mr Murphy said the government would not shy away from concerted action to stop anti-com-

Last month Delta and United Airlines, two of the world's largest carriers, announced a global alliance, just one day after American Airlines and US Airways said they were launching an extensive marketing alliance.

Both deals followed Northwest Airlines' similar agreement with Continental Airlines in January. The deals in effect consolidate the industry into the hands of three large groups, in place of six dominant airlines. Richard Wolffe, Wi

LOCAL TELEPHONE MARKET

#### AT&T wants Baby Bells split

AT&T yesterday threw its weight behind calls for America's five "Baby Bell" companies to be split as a way of kickstarting competition in the country's local telephone market. Michael Armstrong, chaliman, said in a speech in Washington that dividing the monopoly local carriers into separate "wholesale" and "retail" operations would make it possible for would-be rivals - including AT&T - to compete for local customers on a more equal footing with the Bells. The wholesal parts of the Bells' operations would be managed as regulated utilities, which would then sell access to their networks on the same terms both to their separate retail operations and to other companies.

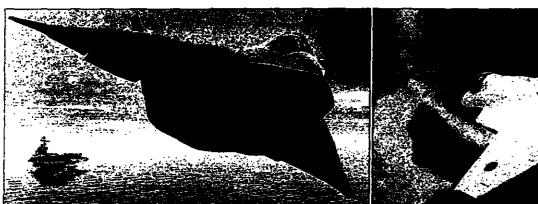
The idea has already been taken up by other long-distance carriers, such as LCI international and MCI, but the backing of the country's largest telecoms company is likely to give it more weight. The long-distance carriers fear that industry reculators will eventually allow the five Bells into the long-distance business, which has lower barriers to entry, before their entrenched local markets have been fully prised open. Richard Waters, New York

ARGENTINE BANKS

#### Liquidity rules may change

Argentina is considering an increase in bank liquidity requirements in advance of a possible rise in US interest rates. If the US Federal Reserve seems to be inclining towards raising rates at the next meeting of its open markets committee, due on May 19, officials have implied that Argentina will raise liquidity requirements beforehand. A rise in liquidity requirements from the current 20 per cent was a key recommendation by last month's International Monetary Fund mission, which urged measures to cool the economy. Gross domestic product grew 8.4 per cent last year.

The iMF team warned that Argentina's growing trade and current account deficit could leave it exposed to a reverse in investor sentiment. It urged tax rises and other measures to slow domestic demand. Ken Warn, Buenos Aires



## Boeing and Lockheed Martin go to war for fighter deal

JSF could be the last big manned combat aircraft, designed for a multiplicity of users and roles, reports Alexander Nicoll

ment blocked Lock-manned combat aircraft to and with short take-off and beed Martin's acquisi- be built in large numbers if vertical landing. tion of Northrop Grumman technology for pilotless airin March, the Pentagon craft continues to develop. seemed to be saying it wanted to keep three independent US suppliers of military aircraft.

But after the present headto-head competition between Boeing and Lockheed Martin numbers for several decades. to win the \$100bn Joint Strike Fighter (JSF) programme, there could in of three out of the four US life costs could be less than effect be only one. So much is hanging on the contest that neither competitor can contemplate losing.

The JSF, scheduled to enter operational service in ing from conventional run- Boeing's defence division,

heed Martin's acquisi- be built in large numbers if vertical landing.

Given defence budget vice including the US Air military aircraft, with or services as well as of Britain's Royal Navy, with its three services (the other the same airframe, engine and avionics configured for a went for separate aircraft. multiplicity of roles, operat-

hen the US govern- 2008, could be the last ways and aircraft carriers

The JSF will replace vari-

ous aircraft at present in ser-

strictures following the cold Force's F-16 and Harrier war, the JSF will almost cer- jump-jets operated by the US tainly be the last new US Marines and the Royal Navy. The Pentagon estimates without a pilot, to be built in savings from the joint approach at \$18bn (in 1995 This is because it is being dollars) in the development designed to meet the needs stage alone; total throughhalf what they would be if

> customer is the US Navy) Alan Mulally, who heads

says: "JSF is a neat concept in that it serves multi- with the conventional verbranches [of the military] but 75-80 per cent of the parts are going to be the same. It has the built-in variability the customer wants."

Under contracts worth \$2.2bn awarded in 1996, Boeing and Lockheed Martin are each producing two demonstrator aircraft to fly for the first time in 2000. In 2001, one of them will win the right to progress to the next stage, with the prospect of building 3,000 aircraft for the four initial customers, and potentially many more.

The Pentagon, which is trying to get the most out of its reduced budget by streamlining its acquisition process, is using the JSF programme as a model. Instead of setting cumbersome specifications, it has set broad performance parameters and asked the contestants to come up with designs which

It has set affordability as came out of commercial pro- rest of the vehicles."

only on performance but on how easily and cheaply they can be maintained. This means keeping the number of parts to a minimum and making them easily accessible to support crews. Frank Statkus, Boeing's

early design stage.

the last fastener.

JSF programme manager in Seattle, says: "The ways to



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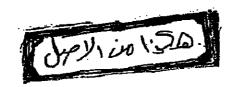
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Special Special

The alternation

## clears sterling's path towards euro

By Robert Peston, Political Editor

European government heads have facilitated sterling's adoption of the European single currency in four to six years through the complicated arrangements for appointments to the executive board of the new European Central Bank.

"They have made it easier for us by arranging for a action," Mrs Beckett said. "They board member to retire are wrong. The euro zone will every year from 2002 to 2004," said a senior government official. "Clearly when we participate in monetary union we will want to be represented on the ECB."

Tony Blair, the prime minister, hinted at this yesterday in the House of Commons when he said that EU

Trade minister warns businesses they must prepare

British overseas direct

account for nearly half of British

exports and over 40 per cent of

Margaret Beckett, the chief trade minister, yesterday delivered a stem lecture to companies on ways in which they could lose if they failed to plan for the euro, Brian Groom writes. "Many companies believe that because the UK is not joining in this first wave,

agreed over the weekend to

give "appropriate weight and

consideration" to "recom-

mendations for nationals of

member states not on the

initial slate" for the next

round of ECB appointments.

UK central banker could

If sterling joined in 2002, a

investment." She added: "Even though we are not in the first they do not need to take any

wave, our businesses will be affected and must be prepared to address the changes which Emu will bring." Mrs Beckett and Lord Simon, the government's European trade minister, addressed 200 become vice-president because the French appoin-

duled to retire then.

in Scotland attracts investors

the weekend to appoint Wim Duisenberg of the Nethertee, Christian Noyer, is lands as inaugural ECB president for a truncated term of about four years.

Exhibition Centre, In

Birminoham, England's

of a regional series of

second-biggest city, in the first

Many exporters priced goods

in sterling, Mrs Beckett said. As

more of their competitors dealt

in a single currency, pressure

would mount for them to do

Ikewise or lose business.

ment seminars.

In ferocious exchanges in the Commons, Mr Blair gave Responding to accusations that he had acquiesced in a a staunch defence of the breach of the Maastricht decision at the European Union summit in Brussels at Treaty - which says the

ECB president should serve two bankers "known for for eight years - the prime their independent views minister said the Dutch cenwould be "in charge of the tral banker was "the only European Central Bank for a candidate that was credible". total of 12 years", thus ensuring "stability". Mr Blair said "the econom-A failure to secure Mr Duisenberg's appointment would have been "a disasics have got to be right" ter" for financial markets, before sterling was surrendered, although he was conthe prime minister claimed.

He reiterated that the fident the euro would be "a Maastricht Treaty had not strong currency". been been breached because "If it is in the interest of Mr Duisenberg was under no British jobs, British investformal obligation to quit ment, British industry we do early, but had entered into a it." he said. gentleman's agreement with

enced". He was pleased that

The prime minister dodged EU government heads. questions about how he Mr Blair described Jeanintended to fulfil the crite-Claude Trichet, governor of rion for Emu membership that applicant currencies the Bank of France, the French candidate for the must maintain a stable con-ECB post who has been lined version rate with the euro up to replace Mr Duisenberg, for two years. as "respected and experi-

Editorial Comment, Page 13

#### Court move may clear way for beef exports

By Michael Smith in Brussels

Two meat factories in Northern Ireland have been given a clean bill of health by European Commission veterinary inspectors. The move could lead within weeks to the first exports of UK beef in more than two

The favourable inspection will be greeted with relief in the UK, which has suffered a series of setbacks in its attempts to win EU backing for a lifting of the ban imposed after BSE, or "mad cow" disease, was linked to a fatal disease affecting

<u>humans,</u> The European Court of Justice yesterday upheld the European Commission's right to ban British beef exports over the disease

The court said the Commission "did not exceed the bounds of discretion in seek ing to contain the disease within the UK". It confirmed a preliminary opinion of its advocate-general and the UK government had expected the judgment.

It has been attempting to lift the ban with two Northern Ireland beef and the other to cattle throughout Britain born after October 1996.

Commission officials say the "born after" scheme could be ready for presentation to EU farm ministers this month. The Northern Ireland plan - the "certified herds scheme" - won backing from EU nations last month subject to favourable reports from veterinary

inspectors. They concluded that the certified herds scheme was "well managed" by the Northern Ireland authorities. and that an abattoir and a mest cutting plant met EII requirements to start exporting. The commission said yesterday that other plants would have to be inspected before they could begin

exporting. Northern Ireland is able to start exporting beef earlier than the rest of the UK because it has a computer ised system for tracking animal movements over the past eight years. The incidence of BSE - "mad cow disease" - in Northern

The European court's rul-

#### **NEWS DIGEST**

**AIRLINE PERFORMANCE** 

#### **Delays at biggest airports** longest since 1991

Delays at the UK's six biggest airports increased last year to their highest level since 1991, the Civil Aviztion Authority said yesterday. The average delay was 16 minutes, compared with 14 minutes in 1996. In 1990, flights were delayed by an average of 20 minutes and by 18 minutes in 1991. The figures are averages of all flights from the airports and not just of those which were delayed. The authority said last year's performance was still better than in the late 1980s despite a 24 per cent increase in the number of flights since then. Last year's delays had a variety of causes, including weather, industrial action, air traffic control difficulties, defective aircraft, missing ssengers and security hold-ups. Delays to scheduled services increased to 13 minutes from 11 minutes the year sfore. International flights were delayed more often than domestic services. Delays were also more likely on long-haul routes than on short-haul flights.

The worst airports for scheduled passengers were all in London. Delays at Gatwick and Luton airports averaged 16 minutes. At Heathrow, the average delay was 14 minutes. Michael Skapinker, London

**BOOKING AGENCIES** 

#### Ticketmaster launches online

Ticketmaster, the UK's biggest booking agency for live events such as rock concerts and London shows, is launching an internet booking service. The company, based in Los Angele has operated an online booking service in the US for the past 18 months. "We expect internet booking to become as popular in the UK as it is in the US," said Jules Boardman, managing director of Ticketmaster (UK). Barry Diller, the US media mogul who also has extensive cable television interests, acquired 50 per cent of Ticketmaster last spring for \$210m in shares. After a boardroom battle, he clinched agree ment in March to buy the remaining 50 per cent for \$400m in shares. Alice Rawsthorn, London

#### **MONTSERRAT CRISIS**

#### Minister felt 'in Kafka novel'

Clare Short, chief minister for international development, yesterday criticised Foreign Office reaction to the Montserret volcano crisis, as ministers came under fire from MPs for their response to last year's crisis on the Caribbean island. Ms Short told the House of Commons international development committee she felt she was in a "Kafka novel" as officials told her that her top priority was to continue a £3m (\$5m) scheme to provide a new prison.

"For quite a long time I was under horrendous pressure to build this prison," said Ms Short. "It was like living in a Kafka novel and I just had to say 'No. I don't believe this is right'." she said. The resources, part of a £58m assistance package spread over three years, eventually went into "more useful help", Ms Short added. In a separate hearing, Robin Cook, the foreign secretary, told the committee that the government's response to the crisis "had not been good enough", Liam Halligan, London

#### **ITALIAN CARS**

#### Inchcape in Maserati deal

Inchcape, the UK company which is the world's biggest independent vehicle distributor and importer, yesterday took over the UK import franchise for Maserati sports cars. It expects to sell up to 600 of the high-performance Italian cars annually. The Inchcape purchase forms part of preparations by Italy's Flat group to relaunch the Maserati brand globally. Fiat's Ferrari subsidiary bought Maserati in June. At that time production at the troubled Modena carmaker had dwindled to fewer than 1,000 a year, with only a few dozen being sold each year in the UK. Ferrari president Luca di Montezemolo Immediately closed the plant in order to re-equip it with the latest manufacturing equipment and technology. Inchcape, which also owns Maranello Concessionaires, the importer of Ferrari cars to the UK, says the Maserati range will sell well below its Ferrari models. The two brands will complement each other by having product lines which appeal to different sectors of the market," said Stuart Robinson, managing director of the UK Ferrari company who also becomes chairman of Maserati UK. John Griffiths, London

#### **BANKRUPTCY CHARGES**

#### **Ex-trader to be sentenced**

Terry Ramsden, the former City of London trader who made several million pounds trading Japanese equities in the 1980s, was yesterday jailed for the night in London before being sentenced today for breaking the rules of his bankruptcy. He has admitted three offences of breaching his bankruptcy arrangements. Glen International, his company, collapsed in 1989 owing creditors £100m. While bankrupt, Mr Ramsden concealed the existence of a trust fund from which, with his mother's help, he withdrew some £300,000, the court heard. He also failed to disclose £77,000 won in a bet and owner ship of shares. John Mason, London

#### **TELEVISION MOVE BY GRANADA**

#### Free digital boxes to be offered

Granada Group is to give digital terrestrial television a boost by offering its TV rental customers free boxes needed to unscramble digital signals. Customers paying about £5 (\$8.35) a week to hire colour televisions from Granada Technology, the company's TV rental arm, will be offered a free box worth £200 once British Digital Broadcasting launches at the end of the year. BDB is a digital terrestrial company owned by Granada and Carlton Communications. "We're aiming at people who are excited about the new technology but may be neryous about committing themselves to it," said Roger Mavity. group managing director of Granada Technology. Cathy Newman, London

## 'Silicon Glen' tries to shake off its screwdriver image

An initiative with Cadence of the US aims to rid the Scottish electronics sector of its low-value-added label, says James Buxton

Hyundai Semiconductor plant sited just off the motorway outside Dunfermline, eastern Scotland, is

almost complete. Unfortunately, the economic crisis in South Korea has pushed back its opening by a year, to the end of 1999. The delay to the £1.25bn (\$2.06bn) project, announced in 1996, is an obstacle to the rapid growth of the Scottish electronics industry.

It was followed last month by the decision of Mitsubishi Electric to close its television plant at Haddington. 30km east of Edinburgh, with the loss of 500 jobs. On the same day. Fullarton, a UK company, shed 350 jobs at its personal computer assembly plant at Gourock,

on the west coast. But it is not all gloom. Last week Donald Dewar. the UK government's chief minister for Scotland, performed the ground-breaking ceremony for a project he called "the cradle of Scotland's new industrial revolution". This is Project Alba, an initiative from Cadence Design Systems, a US company, and Scottish Enterprise, the development

The government yesterday

hensive review of the liquor

licensing laws for England

and Wales since the 1960s.

The laws cover pubs, clubs,

restaurants and liquor

Apart from the introduc-

tion of all-day opening in

1988 - extended to Sundays

three years ago - the licen-

the shell of the vast agency, to make Scotland a world centre in semiconductor design.

Cadence, based in San Jose, California, expects to employ 1,900 people at Livingston, east of Edinburgh, by 2004. But Scottish Enterprise believes 6,000 jobs could have been created by then as other semiconductor design companies move in.

Project Alba should transform a Scottish electronics industry which employs about 60,000 people. Many work in computer

assembly for IBM, Compaq and Digital, or in semiconductor plants owned by Motorola and NEC. In the past decade, a stream of other companies from the US, mainland Europe, Japan and Taiwan has opened electronics plants in Scotland. Yet Silicon Glen, as the

"screwdriver" - operation. -

change that. Cadence is the

George Howarth, a Home

Office minister, told the Brit-

ish Institute of Innkeeping

that the current laws, the

most restrictive in the Brit-

ish Isles, no longer reflected

modern leisure activities or

the needs of the tourism

industry. "The time is right

to blow away the cobwebs in

British life by modernising

the liquor licensing system,"

Among the issues for

review were the types of licences, who should issue

them, licensing hours and

conditions, and how the law

he said.

'Once a critical mass of trading has been

achieved, more

companies will

want to go there'

an electronic product are is called, has not shaken off Semiconductor designers are ment and a commercial the label of a low-value- in short supply worldwide, organisation" added assembly - even particularly in California. announced last De Whereas other companies crisis just by raising salaries market leader in software and poaching staff from tools used in semiconductor other companies, Cadence

welcomed by the industry, later.

which urged a speedy con-clusion. "It would be nice to

bring our licensing laws into

the 20th century while there

is still some of the 20th cen-

tury left." the Brewers and

Licensed Retailers Associa-

The minister warned that

change would come only

after extensive consultation

to protect the interests of

residents and other inter-

ested parties. Officials said a

end of next year and legisla-

tion said.

of Dataquest, the electronics property provided by Scotindustry analyst. Scottish Enterprise has

helped Cadence ser on a partnership with four Scottish universities - Edinburgh, Glasgow, Strathclyde and Heriot-Watt - which are establishing masters degrees in "system-on-a-chip" design and will turn out about 200 graduates a year. What will be a huge boost to Sili-Michael Bealmear, an execu- con Glen. There will be spintive vice-president of offs in all areas of electron-Cadence, calls "a very ics and it will become easier unique Scottish electronics industry designed into a single chip. between a sovereign govern-

announced last December. which electronics designers

was

Under Project Alba, Scotogy, in which the systems in refreshing," says Jim Tully for protecting intellectual want to go there."

The pub and tourism

there has been no trouble

following the relaxation of

on drink-driving legislation

Northern Ireland.

collaboration to anchor manufacturing companies already lished here." Mr Tully says Scottish Enterprise has grounds for

tish law compared with that

of the US, where it can take

two years to negotiate an

Jim Porter of Scottish

Enterprise says: "The exis-

tence of a strong core of

designers at a time when

'system-on-a-chip' is expec-

ted to expand very rapidly

intellectual property deal.

optimism. "Semiconductor Project Alba should are responding to what is a tish Enterprise plans to design operations are being establish a mechanism by set up all over Europe, but once a critical mass of talent can trade their software. and trading has been design, especially in has gone for a long-term. This would exploit the rela- achieved in Scotland more "system-on-a-chip" technol- solution, which is very tively benign environment and more companies will

Liquor licensing laws to be overhauled The announcement was tion would be some time will end on Friday, with ministers undecided on whether to cut Britain's industries point out that limit to bring it into line

> But officials have grown restrictions in Scotland and increasingly concerned about the public response to The prime minister's office has expressed concern a cut in the limit from 80mg over a possible move by of alcohol per 100ml of blood John Prescott, deputy prime to 50mg, "We have been conminister, to cut the drinkcerned for some time about driving limit, fearing it could the impact on rural pubs," be seen as an attack on rural said one. "But we want to areas and motorists, George see what can be done to green government consults. Parker and Liam Halligan reduce the number of deaths tion paper was likely at the write. A public consultation caused by drinking and driv-

with most other European

countries.

 Maxwell auditor faces formal complaints Ireland is relatively low.

> ing yesterday concerned two separate but related cases against the Commission brought by the former Conservative government of the UK and the National Farmers' Union of England and Wales, which has argued that the ban did irreparable harm to the British livestock industry.

#### sing regime is little changed since tough restrictions were imposed in 1915 to help the

13115

The accountancy profession's senior regulator is to hear formal complaints against Coopers & Lybrand. one of the "Big Six" firms. over its role as auditor to the business empire of Robert

Auditors were criticised against Coopers and a for the completion of civil and the tribunal will hear the after the collapse of the Maxwell companies – following to the scheme's tribunal. well companies - following the tycoon's death in 1991 when it was found that up to £440m had disappeared from pension funds linked to the

business empire. An investigation by the executive counsel to the profession's Joint Disciplinary

firms. Coopers said it would

a prima facie case exists scheme's inquiry until after handed down.

be "co-operating fully" with

The tribunal has in the dropped its legal moves after posal including unlimited forward by its counsel, or for pensioners. It had argued individual auditors. decided that no action is that a scheme inquiry would required against partners or place an intolerable burden on staff and partners involved and that the inquiry could have "cata-

past dismissed charges put contributing to a settlement fines and the banning of The disciplinary scheme

said yesterday that Chris sel, had completed his initial inquiry. Complaints would who founded Pergamon Scheme (a lawyer advising press and The European the scheme) has decided that attempted to stall the severe penalties were pers' conduct or quality of work fell below standard.

#### INSURANCE MARKET CONSOLIDATION, COMPETITION AND EXCESS CAPITAL BLAMED FOR UNDERWRITING GLOOM

## Lloyd's expects sharp decline in profits

#### By Christopher Adams,

the centuries-old insurance was able to write, with the the centuries-old insurance was able to this, market, which recovered gloom extending into this reports three years in imposed unacceptable costs central services monopoly. from the brink of ruin two year.

years, said competitive pres- the current time and we sures were "relentless".

ago for the 1996 underwrit- Taylor. ing year from £600m to than 4 per cent on the maxi-

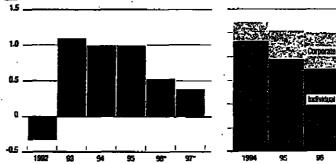
The severe downturn in £574m. It predicted profits global insurance has resources at the end of last a bonus of £120,000 and his for 1997 would be even lower brought to a sudden end a year were £6.5bm. that followed the worst cerns that Lloyd's "annual lor's annual salary is Max Taylor, chairman of mum amount of business it losses in Lloyd's history. Venture" system of raising £400,000. It showed that the Max Taylor, chairman of was able to write, with the Lloyd's, which usually fresh capital each year cost of running the market's

deducting members' per- capital providers. must prepare for the likeli- sonal expenses but excluded Lloyd's has revised profit hood that some will not be a £144m release from also published yesterday, forecasts made 12 months able to achieve this," said Mr reserves. It represented a revealed that Sir David Rowreturn of 17 per cent on pre- land, who retired as chair-

years ago by ridding itself of "Underwriters will need to 1995 of £1.005bn compared denied suggestions that billions of pounds in disas- use all their skill and inge- with £1.013bn in 1994. The Lloyd's was trying to drive trous losses from previous nuity to produce profits at figure was calculated after out Names, its traditional The Lloyd's annual report,

> miums of £5.92bn. Net man last year, was awarded Lloyd's car in addition to a venture" system of raising £400,000. It showed that the

#### Lloyd's faces downtom in global insurance Tracting results



declined by nearly 200.

debts owed by Names who with a deficit of £483.8m in streams, unveiled profits for on the market. But he the Corporation of Lloyd's, tive, said Lloyd's would tlement offer. The corporations to the recovery plan.

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fell from £223m to £182m last probably not manage to tion recorded a modest suryear as staff numbers recover most of the £570m in plus of £34.8m, compared Ron Sandler, chief execu- did not accept the 1996 set- 1996, when it made contribu-

insurance Correspondent

Lloyd's of London warned vesterdey that insurance underwriting profits were expected to full sharply. Excess capital, rapid consolidation and flerce worldwide competition have forced premium rates for communication at 2366m. a return of less buoyant period of trading Mr Taylor reiterated consultant of £450,000. Mr Taylor reiterated consultant of £450,000. Mr Taylor reiterated consultant for the most of the fall of the fall of trading for the fall of th mangins, it said.

FOREIGN

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By Edward /

The Canadilikely to de islation to banks to et directly in is linking t politically of whether should be with one at Jim Pet

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# Your challenge

CAREER OPPORTUNITIES THAT PUT YOU AT THE HEART OF A GLOBAL BUSINESS.

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#### GUNDA PADISANIS AND CANHMANAGEMENT

- Senior Product Manager Payments
- Senior Product Manager Collections
- <u>Senior Product Manager Treasury Services</u>
- Product Manager Payments

The Payments and Cash Management Product Group's challenge is to deliver cash management services by focusing on account services & liquidity management, treasury services and payments & collection.

#### GTS CLIENT INTERFACES & PLATFORM MANAGEMENT

Client Interfaces

- Senior Product Manager Trade Tools
- Product Manager Trade Tools
- Senior Product Manager Client Single Window
- Product Manager Client Single Window

  Product Manager Client Sing
- Product Manager Third Party Packages
- Product Manager Netting
- Senior Product Manager Global Gateway/Bank
   Delivery Channels
- Product Manager Accounts Payable/Accounts Receivable

Bank Platforms

- Senior Platform Manager Trade
- Platform Manager Payments
- Platform Manager Cash Management

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- A good understanding of product management;
- Experience in complex project management;
- A sound understanding of IT in the banking environment:
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- Self-starter and team-player.

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**6**....

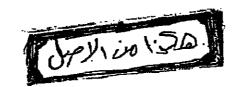
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THE ARTS

ART THE MAGNANI ROCCA FOUNDATION

Susan Moore admires a magnificent and diverse private collection

Why do so few Italophiles ever make it to Parma? This prosperous Emilian town, celebrated for its cheese, ham and spring violets, is home not only to parmigiano but the 16th century mannerist painter Parmigianino, and a host of masterpieces by Correg-

There are the delightful frescoes of the Camera di San Paolo, painted for the private delectation of an aristocratic abbess, and his illusionistic frescoes in the cupola of Parma cathedral The town boasts a fine art gallery housed in the gaunt 16th-century Farnese Palace, alongside the impressive classical theatre. And just 18km away, at the Corte di Mamiano at Traversetolo di Parma, there is the Magnani Rocca Foundation, which re-

country villa is home to what the outstanding French Empire zling, flame-like seraph whose must rank as one of the choicest fondeur-doreur, P-P Thomire, golden light illuminates every-small art collections amassed made for Tsar Alexander II who anywhere in the latter part of this century, and one, interestingly, formed with more discrimination than unlimited cash. By all accounts, the late Gino

Magnani - he died in 1986 - was

an unusually cultivated figure, a professor of art history in Rome, essayist and musicologist, a man as likely to discuss Stendhal or a late Schubert quartet as any 16th-century masterpiece. This breadth was manifest in his collecting too. Unlike most of his countrymen, Magnani did not confine himself to the work of local or even Italian artists and the most striking aspect of a visit to Mamiano is discovering the unexpected ~ a stunning Dürer, a stupendous Goya, works by lugres, Fuseli, a Mediterranean Monet, Renoir fish.

The first thing one encounters the barren peak of La Verna. On in the spacious entrance hall is a the other side of a ravine, vast malachite basin supported Brother Leo shields his face from

then gave it to Napoleon. This is part of a notable group of Empire furniture and works of art which Magnani acquired with the advice of the pioneering cham-pion of Neo-Classicism, Mario Praz. The second revelation comes in the long picture gallery. As a collector of Italian Old Mas-

ter paintings, Magnani never put

a foot wrong, there is not a single dud. Moreover, a handful of

paintings would grace any great There is, for instance, the glowing, perfectly preserved panel of St Francis receiving the stigmata by Gentile da Fabriano, originally made as a double-sided processional standard (the other, less interesting, side is in the Getty). St Francis kneels in prayer on a grassy ledge beneath

rest in deep shadow. It is not tian, a rare work of his second known how Gentile came to visit to Italy in 1505-7 and interpret heavenly radiance as acquired by Magnani from an effects by laying his pigments cavallo.

so much Florentine painting. Dürer's Madonna, meanwhile, thing in its path and casts the finds the artist at his most Venenatural sunlight (he achieved the impoverished convent at Bagna-

Formed with discrimation rather than unlimited cash, this is one of the choicest small art collections amassed anywhere during the latter part of this century

over gold leaf), but this naturalistic rendering of light and shadow is entirely new in early 15th century Italian art.

Here, too, is Ghirlandaio's "St Maria Novella in Florence, disis suffused with the cool, blond devotion at the feet of the

Titian's breathtakingly beautiful "Sacra Conversazione" dominates the main gallery, a Madonna and Child with St Catherine, St Dominic and a donor Peter Martyr" which once (probably a member of the Balbi adorned the high altar of Santa family as the picture came from the Palazzo Balbi in Genoa). The membered in 1809. Nearby, a monumental figures fill the fore-Filippo Lippi Madonna and Child ground, the donor kneeling in

respond to the prayer of her faithful servant.

World's away is Goya's vast, secular conversation piece of the family of the Infante Don Luis of 1784 - notable for the fact that nobody is talking. Even Goya's palette is muted. The aged Don Luis, the brother of Charles III, sits at the card table, game over and cards discarded, staring vacantly ahead; his much younger wife sits having her hair curled. A retinue of staff and family stand in attendance while in the foreground a painter crouches at his easel Goya presents it all like some

theatrical tableau, and even the protagonists seem to collude with an unseen audience. Donna Maria Teresa inspects us warily, the servants look on with open curiosity. Don Luis seems to be holding his pose while waiting for the curtain to drop - on the whole Bourbon dynasty, perhaps. If these were not gems enough, the upper floor of the villa holds more surprises, a group of Cezanne Watercolours among them, and an outstanding hold-

Madonna and the statuesque vir- landscapes - by Magnani's friend gin herself turning as if to Giorgio Morandi, acquired directly from the artist.

11

How did Gino Magnani come to accumulate such magnificent works of art? One answer is that his father was a well-to-do businessmen with interests in property and dairy and agricultural products. Another is that he prudently chose to buy works of art "notified" by the Italian government which, as they are unable to leave the country, were available for a fraction of their international market value. What gives this collection its truly dis-tinctive character, however, is the rare care, discernment and passionate determination with which Gino Magnani selected and pursued his quarry.

In 1977 Magnani set up the Foundation for the public display of the collection after his death. Music and art remain the lifeblood of the place - as do those precious rounds of Parmesan cheese maturing slowly on the family estate nearby which help ensure the up-keep of the museum and its programme of loan exhibitions and concerts.

The Foundation is open daily, except Mondays, until November. ing of 50 works - paintings, etchings and drawings, still-lifes and

## Superb 'Othello' grows in stature

Alastair Macaulay reviews Sam Mendes' production, now installed at the Lyttelton Theatre

National Theatre was when first seen last September at the Cottesloe, it is much better now that it has transferred to the Lyttelton. (In between, it has toured America. Europe. Asia, New Zealand and Australia.) In particular, David Harewood's account of the title role has grown immeasurably in immediacy, style, and power, and the whole staging especially in the second half - is the most moving Othello I have

True, there are a few losses with its move from the smaller

The whole staging is the most moving Othello I have ever encountered ... there is not an ounce of exaggerated or unnatural acting anywhere

auditorium. Almost every actor lets a few or his or her quieter words or phrases become inaudible in the larger auditorium. But the production is compelling, the address of each actor to his or her colleagues exemplary. There is not an ounce of exaggerated or unnatural acting anywhere here. On Monday, an audience that had brought an outsize share of coughs, throat-clearings and rustlines into the auditorium was gradually transfixed; in the last two acts, the fall of a pin onstage would have been been audible, and - in a production so economical and focused - would have

Much about this Othello which is set in the period between the wars - will seem definitive for years to come. No performance more so than Simon Russell Beale's as lago. He and Mendes have a noteworthy track-record in Shakespearian

Good as Sam Mendes's collaboration; he has been production of Othelio for the Mendes's Thersites (in Troilus), Areil (in The Tempest), and Richard III.

Can any actor match him in catching the misery of evil? Or its scorn? Or its loneliness? He seems ill at ease with his own body. His voice is stinging, his presence baleful, his mind bil-ious. Yet he takes us with revelatory freshness through each quicksilver stage of lago's thinking, and takes us again and again by surprise. With no apparent change of gear, he seems to Othello & Co. loyal, concerned, simple; he is also witty, calm, and seemingly artless.

This superlative actor has, throughout the 1990s, been one of our foremost Shakespearians. As lago, however, he has two faults. He shows the rattling speed of lago's talk, but occasionally his rapid delivery of the long skeins of lago's schemes becomes a virtuoso kind of monotonous babble: we hear the speed but not the he is too knowing, too close to camp in his cold relish for the evils he is setting in motion. Neither of these faults is too serious. Right up to the end, this lago is disturbing and unfathomable: deeply so.

I had remembered - I hope I will never forget - Clare Skinner's rare ability as Desdemona to convey both purity and innocence; youthfulness and nurpose: the shining alabaster-and-rosepink of her complexion (the juxtaposition of this beside the burnished ebony of Harewood's Othello is an indelible image); the vulnerable catch in her ardent voice. But I had not appreciated - or she has gained in her stillness. The complete composure of this Desdemona. whether in private grief or conversing with others, is wonderful because it draws us in: so that the final scenes in her bedchamber are thrilling. Tranquil in happiness, she is rendered immobile by affliction. We hang on her face and voice and stance because their tiniest nuance expresses her innermost feeling.



Bajeful presence: Simon Russell Beale's lago catches the misery of evil

fully inhabits the role of Othelio immensely touching in so force- tion of Roderigo's deterioration is acts. His rapport with Desde- actual diction is laboured; the performance. Anthony Ward's mone and lago is full of superb dark, intense vocal tone and the detail: how marvellously he lis- consonants seem conceived in The production is set in the midtens, and how poignantly he no sooner embraces Desdemona than he opens his mouth to address Iago. Because of him, we experience the plot of Othello three times over first, as Isgo announces what he will do; then, as we see it actually happen; finally, and most unbearably, as minted, and seize the heart with it is revealed, too late, to Othello beside his wife's dead body. Harewood listens, as he has listened throughout, with an innocence

that he carries the play's later ful a man. It is still true that his still striking; there is no weak very separate areas of his head. But his phrasing has become keen spontaneity overrides all. thee not./ Chaos is come again." The famous lines seem new-

Maureen Beattle's Emilia has likewise grown from good to excellent; Crispin Letts's delinea- South Bank, London SE1.

designs have transferred well. war period, and its naturalism is perfect except for a clock's tooaltogether more natural, and his loud tick in Venice. Sometimes I think there is nothing better "Perdition catch my soul/ But I than to discover a new or unfado love thee, and when I love miliar play of excellence; but sometimes I think that the best experience of all is to encounter a familiar play as if for the first time. So with this superb Othello.

in National Theatre repertory

## Just a couple of not-so-swells

NEW YORK THEATRE

**BRENDAN LEMON** 

High Society has never before been performed on Broadway, but such is the shadow cast by its source material - the 1939 Philip Barry play The Philadelphia Story, its subsequent movie version, and the 1956 film musical adaptation with songs by Cole Porter - that the current production's performers cannot escape comparison with the likes of Katharine Hepburn and Cary Grant.

Invoking Hepburn, the originator of the role of Tracy Lord, the judgmental American princess who is on the eve of her second wedding day, and Grant, the first screen embodiment of C.K. Dexter Haven, Tracy's debonair first husband who crashes the proceedings to protect her, is not unfair. Theatregoers may not show up thinking they will encounter gods and goddesses of the Hepburn-Grant order, but they do have a right to expect performers who can make these

Unfortunately, neither Melissa Errico nor Daniel McDonald, who sister, Dinah (Anna Kendrick, play the pair of swells here, is deliciously bratty), who is better fully up to the demands of their schooled in toff-like sarcasm. assignment, and their deficienserious piece of miscalculation.

A square-jawed specimen of almost reprehensible handsomeness, with a voice that has heft but not much lyricism, he would be ideal for George Kittredge, the down-to-earth fellow Tracy is in almost every way fighting above his class. When called upon to sing "Just One of Those handful of interpolated Porter standards, he conveys lament but not wryness; when delivering dialogue (from the book by Arthur Kopit) he is earnest rather than

In contrast to her co-star, Errico is not exactly miscast. She achiev has old-fashioned patrician prettigrace.

ness, an elegant, clear soprano. and is capable of the screwballcomedy speed her lines often require. She is also very good at queening it over her colleagues. But just as Tracy has all the attributes of a first-rate human being except an "intolerance for human frailty," Errico has all the

makings of an excellent charac-

terisation except an inability for

playing upper-class irony. in the early scene where she tries to deceive Mike Connor (Stephen Bogardus) and Liz Imbrie (Randy Graff), the scandal-sheet reporters who have been dispatched to cover her nustials, she flounces around, making fun of their Midwestern hometowns. But when Errico says. "South Bend ... it sounds like dancing, doesn't it?" all you can

It is Tracy's precocious baby sister, Dinah, who is better schooled in toff-like sarcasm

is no reason for people to pay top the line, with its playful yet prices for facsimiles. tion, it is Tracy's precocious baby

The other performers, with cies remove a lot of the glimmer more stock roles to play, have and bite from what is otherwise a near-uniform success. John well-designed, quite enjoyable McMartin, as Tracy's daft Uncle evening. McDonald is the more Willie, is particularly delightful. Willie, is particularly delightful. Bottom-pinching, bibulous, McMartin darts in and out of his Oyster Bay estate, where the nuptials are to be held, spreading an equal measure of galety and consternation. The second-act scene where he runs amok about to marry, but as the yacht- among his arbored grounds, and loving, aristocratic Dexter, he is, alights briefly to sing "Say I: With Gin" is one of the production's high points. In fact, that outdoor sequence, set brilliantly Things," one of the production's by the designer Loy Arcenas against an imposing moon, is enchanting. In it, Barry and Porter's comedy of confused affections achieves a kind of Shakespearean magic. If only the entire evening, whose direction is credited to Christopher Renshaw, had achieved an equally high level of

INTERNATIONAL

## Arts

**AMSTERDAM** 

BASLE

Netherlands Opera, Het Muziekthoato Tel: 31-20-551 8911 Tosca: by Pucchi, New production by Nikolaus Lehnhoff with a cast including Bryn Terfel. The conductor is Riccardo Chailly; May 6, 8, 10

EXHIBITION Tel: 41-61-271 0828 www.kunstmuseumbasal.ch Andy Warhol: Drawings 1942-1987. Around 230 works by the American pop artist, most of them on loan from the Andy Warhol Museum In Pittsburgh and the Warhol Foundation in New York; to Jul 19

BERLIN DANCE Tel: 49-30-34384-01 Deutsche Oper Ballet: triple bill of works by Kyllán, Bigonzetti and

Forsythe; May 8, 9, 10

As for Harewood, he now so

**BOLOGNA** Teatro Comunale Tel: 39-51-529 999 www.nettuno.it/bo/teatrocomunale Don Pasquale: by Donizetti. La Scala production condoucted by Maurizio Benini/Roberto Polastri in a staging by Stefano Vizioli. Cast Includes Ruggero Raimondi; May 6, 8, 10

THEATRE --**Brighton Festival** Tel: 44-1273-685 861 The Cherry Orchard: by Cheldrov. Rimas Tuminas directs a production by the Small Theatre of Vilnius, Lithuania. With English subtitles: Gardner Arts Centre, University of Sussex; May 6, 7, 8, 9

**BRIGHTON** 

BRUSSELS **OPERA** La Monnaid Tel: 32-2-229 1211 Il Ritorno d'Ullisse: by Monteverdi. New production conducted by Phillippe Pierlot in a staging by William Kentridge. With the Handspring Puppet Company, at the Lunatheater, May 9, 10

CHICAGO CONCERTS Tel: 1-312-294-3000 www.chicegosymphony.org Chicago Symphony Orchestra:

conducted by Mark Wigglesworth in works by Debussy, Mozart, Berg and Sibelius. With soprano Christine Schäfer, May 7,

DUBLIN EXHIBITION National Gallery of Ireland Tel: 353-1-661 5133 The Irish Architectural Archive: 50 works selected from the archive, including designs for houses, churches and civic buildings by architects including James Gandon and Raymond McGrath; ends on

EXHIBITION Scottish National Gallery of Modern Art Tel: 44-131-624 6200 William MacTaggart (1903-1981): retrospective of the Edinburgh modernist, Includes around 50 paintings, watercolours and drawings, the majority borrowed from private collections and seldom exhibited; ends on Sunday

**EDINBURGH** 

**GLASGOW OPERA** Scottish Opera, Theatre Royal Tel: 44-141-332 9000 The Queen of Spades: by Tchaikovsky. Conducted by Richard Armstrong in a staging by Yannis Kokkos; May 9

LAUSANNE OPERA Opéra de Lausanne, Théâtre

Tel: 41-21-310 1600 Il Matrimonio segreto: by Cimarosa. Conducted by Jonathan Darlington in a staging by Alain Marcel. Cast includes Alison Hagley; May 8, 10

LISBON CONCERTS 100 Days Festival, Expo '96 Portuguese Symphony Orchestra: programme of 20th century works: Main Auditorium, Centro Cultural de Belém: May 6

DANCE 100 Days Festival, Expo '96 Pina Bausch: specially commissioned new work; Main Auditorium, Centro Cultural de Belém; May 11

LONDON CONCERTS Royal Festival Hall Tel: 44-171-960 4242 Baranboim Beethoven Cycle: series of six concerts, with Barenboim conducting the nine symphonies and directing the five Plano Concertos from the keyboard. With the Staatskapelle Berlin, the London Symphony Chorus and soloists tha; May 6, 7

**OPERA** L.A. Opera, Dorothy Chandler Pavilion Tel: 1-213-972 8001 Sloresedos[www. (I Trovetore: by Verdi. Conducted by Gabriele Ferro in a staging by

LOS ANGELES

Stephen Lawless. Cast Includes Vizdimir Bogachov: May 8

MILAN OPERA Teatro alla Scala Tel: 39-2-88791 www.lascala.milano.ii Der Freischütz: by Weber. Conducted by Donald Runnicles in a staging by Pier'Alii, with a cast Including Kim Begley and Nancy Gustafson; May 7, 9

MOSCOW **EXHIBITIONS** Pushkin State Museum of Fine

French Master Drawings from the Plerpoint Morgan Library: featuring 120 drawings, sketchbooks and albums drawn from the library's permanent collections. Highlights will include works by Cezanne, Delacroix, Ingres and Poussin; ends on Sunday

**MUNICH** CONCERTS Philharmonie Gasteig Tel: 49-89-5481 8181 David Helfgott: Rachmaninov's Piano Concerto No. 3. With the Munich Symphoniker, conducted by Jeanpierre Faber, May 8

Die Schöpfung: by Joseph Haydn. Concert performance conducted by Hayko Siemens; May 9

 Milan Symphony Orchestra: conducted by Alan Francis in works by Mozart, Bruch and Schubert With planists Ferhan and Ferzan Onder, and violin soloist

Anton Barachowsky; May ? Vocalissimo! Gala der Stars: Enoch zu Guttenberg conducts works by Haydn, Mozart and Beethoven, With violin soloist Andreas Rainer, May 6

**PARIS** CONCERTS Théâtre des Champs Elysées Tel: 33-1-4952 5050 Cyril Huvé: recital by the planist of a programme of works by Brahms; May 11 Orchestre National de France: conducted by Jerzy Semkow in works by Mozart, Wagner and Tchalkovsky. With mezzo-soprano Jard van Nes; May 6

**EXHIBITION** Musée du Louvn Tel: 33-1-4020 5151 www.louvre.fr Le Collection Lemme: 17th and 18th century Italian art. Exhibition to mark the gift to the Louvre of 20 paintings and a sculpture. The 130 paintings on display include religious and mythological subjects and portraits; to May 11

SAN FRANCISCO CONCERTS Davies Symphony Hall Tel: 1-415-864 6000 www.sfsymphony.org San Francisco Symphony Orchestra: conducted by Peter Maxwell Davies in the world premiere of his own new work, A Real of Seven Fishermen. The programme is completed by works by Haydn and Shostakovich. With

cello soloist Lynn Harrell:

May 7, 8, 9

**STOCKHOLM** CONCERT Tel: 46-8-248 240 Deutsche Oper Orchestra: conducted by Jirl Kout in works by Weber and Dvořák, May 10

**OPERA** Königlichen Oper Tel: 46-8-248 240 Deutsche Oper: Tannhäser, by Wagner, Conducted by Jiri Kout in a staging by Götz Friedrich:

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At 08:20 Tanva Beckett of FTTV reports live from LIFFE as the London market opens.

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cont ente **EDWARD MORTIMER** 

## Rethink on Cyprus

Tony Blair should use the EU presidency to break the deadlock in the island's long-entrenched conflict

Tony Blair is credited with making peace in Northern ireland. We do not know yet whether he really has, but his success in forging the Good Friday agreement has given him, at least momentarily, a world aura

But his spin-doctors chose the wrong testing ground for this new-found reputation. In the Arab-Israel conflict, a British prime minister, even rèsted in the temporary grandeur of the European inion presidency, has very little leverage. Nearby, however, lies another long-entrenched conflict in which the EU has a direct, perhans decisive role, while

the UK has specific treaty responsibilities. l refer to Cyprus, where even Richard Holbrooke, 'architect of Bosnia's Dayton accords, failed to break the deadlock last weekend. Mr Holbrooke, now US special envoy to Cyprus, described the setback as a "temporary

but serious impasse". 'Serious it is. But to call it temporary must have taken all of his legendary can-do spirit. Deadlock has prevailed ever since Turkish froops occupied the northern two fifths of the island in 1974, regrouping the Turkish Cypriot population there while driving the Greek Cypriots out.

Agreement in principle on a "bi-zonal, bi-communal federation" was reached as long ago as 1977, but repeated efforts by the United Nations to translate this into a new constitution have failed. The main obstacle has been the determination of Rauf Denktash, the Turkish Cypriot leader, to win equal status with the Greek Cypriots by getting the world to recognise his Turkish-protected de facto

island. The Greek Cypriots, meanwhile, insist on a workable federal government reflecting their preponderance in the population (roughly 80 per cent), on freedom to reside in any part of the island, and

on the withdrawal of

Turkish troops.

Three years ago the EU sought to break this logjam by including Cyprus in its next wave of members. This was done to purchase Greek consent to a customs union between the EU and Turkey, but it was also hoped that the prospect of EU membership would give both communities on the island an incentive to settle their differences. If Turkish Cypriots blocked a settlement they faced the risk of seeing Cyprus

Greek Cypriots appeared intransigent they risked forfeiting the prize of entry. It has not worked. Mr Denktash has hardened his position, imposing two conditions for further talks that, as Mr Holbrooke says,

admitted to the EU under its

Cypriot government; and if

present, purely Greek

make progress "extremely difficult". One is that his state should first be recognised internationally, the other that the access

talks between Cyprus and

the EU should be broken off.

Only Turkey has real leverage over Mr Denktash leverage it would have used, had things gone according to plan, to win west European good will and so smooth its own path to EU membership. Alas, at last December's Luxembourg summit the EU threw away this card by excluding Turkey from the accession process" that has since been launched with 10 central and east European countries, as well as Cyprus. It also confirmed Turkey's 'eligibility" for accession and proclaimed a "European strategy for Turkey". But this had a hollow ring for Turks, who saw themselves denied equal status even with countries deemed not yet ready for actual membership talks, such as Bulgaria, Romania and

Slovakia. Since then Turkey has sought to punish the EU rather than placate it.



Serious impasse: Richard Hotbrooke (left) with Rauf Denktash

Instead of encouraging Mr Denktash to take up, or at least discuss, the EU's offer to include Turkish Cypriot representatives in the accession talks, it has backed him in breaking off the long-standing intercommunal talks on the

island's future. "We believe," says Mr Holbrooke (speaking for the US), "that Turkey's candidacy for EU membership should be considered on the same basis as other existing applicants, recognising that such membership could take many years."

Indeed, the EU should recognise that only by giving Turkey equal treatment can it revive hopes of reuniting bi-zonal" state. Turkey is simply not going to allow the whole of Cyprus, with its Turkish community, to be swept into an EU where Greece is a member but Turkey is not welcome.

If the EU persists with its present line, Cyprus will remain partitioned. The south with its Greek inhabitants will join, while the north with its Turkish inhabitants stavs outside. whatever the text of the accession treaty may say.

way of settling the conflict will have to be tried: the one long since accepted as the only possible basts for settling the Arab-Israel dispute, namely "land for peace". The Turkish Cypriot state. like the Jewish one. should be offered recognition of its right to exist, but on condition that it contents tself with the same share of the land that it has of the

Peacemaker Blair, as EU president, should confront his fellow heads of government with a clear choice. He should tell them that, unless they use next month's Cardiff summit to correct the mistake they made at Luxembourg, he will feel obliged to convene conference of the three guarantors of Cyprus's independence (Britain, Greece and Turkey) and to propose a new formula giving independence to both communities on the island. on senarate but equal terms

Edward Mortimer@FT.com

### LETTERS TO THE EDITOR

#### Chirac revealing on what fudge and a fix will actually mean

Sir, You report ("Chirac actually is. and Kohl under fire for bank compromise", May 5) that Tony Blair, the UK prime minister, said of the decision on the European Central Bank presidency that "a fudge and a fix was actually avoided". He evidently does not share the same linguistic world as the rest of us. A fudge and a fix it most clearly was, providing an

> sive and risky project. Not much noted was the fact that Jean-Claude Trichet, when eventually he gets into position, will serve the full eight years. Coupled with Mr Chirac's revealing words at the press conference about the need to preserve France's position within Europe, we can all

In that case a different

population - roughly half what it now occupies.

From Mr Harold W.D. see what precisely the implication of the fudge and fix Duisenberg announcing in a

What also seems in question now is the earlier decision to adopt the eight-year term; four years is surely enough for any one country to possess this position unless of course one actually believes that it will be free of political interference.

Harold W.D. Hughes, 16 Wingfield Road, Kingston-upon-Thames Surrey KT2 5LR, UK

From Mr R.J. Miles. Sir, The French should be admired for their adherence to principle: the principle sations should be headed by a Frenchman. However, if the deal reached at the weekend was an informal one, what is to stop Wim couple of years' time that his personal circumstances have changed and that, in accordance with the Maastricht treaty, he has decided to stay for the full term?

R.J. Miles, Court Lodge. Blechingley, Surrey, UK

From Mr Giovanni Zocchi. Sir, I was struck by your front page picture of the euro coin (May 2-3). It depicts a Europe afloat in a geographical limbo, symbolising, perhaps, a Union devoid of a cultural and political context?

Giovanni Zocchi,

Bleegdomsvej 72 A,

#### Tracker device would deter tanker piracy

From Mr David Shamash. Sir, Re your report of large being hijacked by pirates in to a car to locate it in the piracy feared as Asian tanker vanishes", April 30), I that can communicate with London WC2E 9DJ, UK

fitted with devices similar to lite links used by, for examtankers disappearing after the tracker that can be fitted ple, Inmarsat. south-east Asia ("Unsurge of event of theft. It cannot be so difficult to invent a device

wonder why ships are not a base station via the satel-

34 Floral Street,

#### Independent heavyweight

From Professor Robert

H. Taylor. Sir. Because of its reliance on government and official agency data, your analysis of the relative rankings of UK universities ("Once glorious Oxford only scrapes a third", April 29) captures those which are in receipt of taxpayers' funds but not the one which is not.

Because of our small size and relatively recent origins, the University of Buckingham, the UK's only independent university, would not weigh in with the heaviest weights in your table. But in terms of a number of crucial indicators we would rank with the best in terms of staff/student ratio, per capita library expenditure, employability of graduates, and international student body. The greater diversity of colleges and universities in the US is sadly missing in the UK because of the increasing level of state-led direction to higher education here.

University of Buckingham, Buckingham MK18 1EC,

#### Continuing enlargement of Nato key to European security

Sir, The process of inclusion of Poland, the Czech Republic and Hungary into stated in your leader "The US and Nato expansion" (April 28), it would be a mistake either to delay or encumber with conditions the Nato enlargement process. It is in all our interests that the ratification will proceed smoothly, thus paying the way for integration of other aspiring members into

the structures that have created and sustained peace in Europe since 1945.

enlargement. I hope that you will agree that this is not the issue for mincing words.

to rush with further enlargement, especially in view of Union. Russian sensitiveness. It also Nato has approached its suggests that the Russian tion clearly stressed that the final stage and, as rightly veto over the enlargement is process of enlargement will an open issue although it has been repeatedly said by Nato that no third state, for example Russia, has a veto over Nato decisions on

> Furthermore, allow me to emphasise that it will not be the sequence of accession to Nato that will determine the pean security that emerges continue after the first three

Nato and the European

The Nato Madrid declaracontinue without excluding from consideration any European democracy regardless of its geographical location. The "open doors" policy not only reassured aspiring members of future membership but above all.

stressed that further invitations would enhance overall European security and stability. This is the cornersecurity of Europe, but the stone of why the enlargetotal final concept of Euro- ment of Nato should

cludes that there is no need from the enlargement of states are accepted. On these grounds I cannot agree with your cautious attitude vis-a-vis further enlargement.

This is an historical moment offering yet another possibility to create an undivided, peaceful and democratic Europe. The new members of Nato will not just be security importers but producers and exporters. This will enhance and not diminish the security and stability throughout Europe.

> Embassy of Latvia, 45 Nottingham Place

Number One Southwark Bridge, London SE1 9HL

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PERSONAL VIEW WILLIAM DUDLEY

#### How will your software react to the turn of the century?



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## From virtuous to vicious

US economic growth has been fuelled by the relentless rise of the stock market But if interest rates rise sharply, the model may prove brittle

he US economy shows persistent strength. High real interest rates, trade drag from Asia, a stronger dollar, fiscal restraint - none of these has been sufficient to sap the economy's

Why has the US economy performed so well in spite of so many restraints? One needs look no further than the booming US equity market. By boosting household net worth - adding about \$1,000bn (£600bn) in the first quarter and more than \$6,000bn since 1990 - it has encouraged households to keep spending. The strength of the stock market is the main reason why the personal saving rate fell to a 57-year low last year, why save out of income when the stock market boosted household net worth by 13 per cent in 1997?

The robust stock market talk that the economy has entered a "new era". Strong growth has generated rising earnings, pushing up share prices, fostering greater helped to extend the life of longer business expansion has boosted the equity market further by shrinking the equity risk premium. If sions are less frequent, equities are less risky. As a result, investors are willing to pay more for a dollar of

As the equity market has continued to rise, the circle has become increasingly virtuous. For example, the stock market has helped hold down compensation expenses. Benefit costs have been restrained because defined benefit plans; they higher wages have also been restrained as share options have become a more importions, one would conclude and the dollar

Stocks matter in assessing financial conditions in the US **GS FCI (figurated conditions index)** 

in share prices (compled with rates) has led to a surge in capital gains realisations, has been a significant part of boosting tax receipts. Capital the virtuous circle fanning gains tax receipts should climb to nearly \$100bn this

year, up from \$44bn in 1995. The importance of the stock market in keeping this virtuous chele intact cannot investment, increasing be overstated. To illustrate capacity and restraining this, Goldman Sachs conbe overstated. To illustrate structed a "financial conditions index" (see chart) by the business expansion. The adding a stock market variable - the Standard & Poor's 500 index - to the monetary conditions index, which term interest rates and the trade-weighted dollar. The chart shows that the

addition of the stock market has caused the financial conditions index to diverge sharply from the monetary conditions index in recent years. While the dollar's strength has caused the monetary index to move to its tightest setting during this business cycle, the many companies have not financial conditions index had to make contributions to shows a substantial easing. The stock market rise has are fully funded as a result overwhelmed the restraint of the stock market's exerted by a stronger dollar. strength. Pressures for making financial market conditions easier. Based on monetary condi-

tant component of compen- that Federal Reserve offi-Stock market strength has ease monetary policy. But

site conclusion. The finana change in capital gains tax cial conditions index has done a much better job of anticipating the economy's strength in recent years.

So what does this imply

for the economy and interest First, it suggests the economy will continue to be more robust than expected. Certainly, the pace of growth will start to slow in the second quarter, but this is largely for one-off reasons and is likely to prove temporary. Second, it implies that financial market conditions will need to be tightened. includes short- and long- Excluding a collapse in equity prices or a dramatic strengthening of the dollar, Fed officials will need to push up interest rates in order to tighten financial conditions and restrain the

pace of economic growth. How much tightening might be required? While the answer depends on the reaction of the stock market and the dollar to such tightening. the financial conditions index suggests that a significant rise in rates could be needed

One point on the index is equivalent to a one percentage point change in all the index's components. This unchanged, it would take a something vicious. cials would soon need to rise of more than 300 basis points in both short- and The author is director of US even helped push the federal looking at financial condi-long-term interest rates to economics research at Goldbudget into surplus. The rise tions, one reaches the oppopulation the financial index man Suchs

back to the level reached at the end of 1994. In practice, the dollar and share prices would be affected by a rate move of such magnitude, which would limit the extent of the rise needed.

But the point remains valid. If the equity market and the dollar are not unusually sensitive to changes in interest rates, it will take much more than the 25 to 50 basis points of tightening that some people are arguing will be needed to restrain the economy.

Just as serious an issue is whether Fed officials would be able to engineer a soft landing. The problem is that an economy that depends for support on a healthy stock market and a virtuous circle may be strong, but it is also quite brittle. It could become sick quite quickly should the stock market sink and the virtuous circle end. The boom and bust in Japan is a good example of this.

If share prices were to decline sharply, consumer spending would sink as households responded by raising their saving rates. Investment spending would also falter. Not only would the cost of capital rise as equity prices fell, but businesses would question the need to expand capacity when consumer spending was faltering,

The benefits of a strong stock market - lower benefit costs, more tax receipts would also evaporate, raising questions about the new economic era. It might be difficult for Fed officials to modulate monetary policy precisely enough to slow the economy, but avoid an economic downturn.

This underscores the biggest error of monetary policy in recent years. If Fed officials had tightened rates in 1996 and 1997 by more than 25 basis points, the stock market would not be so high, the labour markets not so tight, nor the circle so virtuous. The economy would be less vulnerable to a monemeans that, if share prices tary tightening that could were turn a virtuous circle into

second-largest economy

is mired in recession

Ryutaro Hashimoto, the prime minister, has performed a policy U-turn of prodigious proportions, abandoning his commitment to

fiscal prudence and pumping Y16,600bn (£75bn) into the econ-

omy. It all seems for naught.

Many commentators believe

growth this year may well be

zero. Japan seems condemned to

as dire straits. Three of the coun-

try's big five carmakers - Mazda,

Mitsubishi Motors and Nissan -

are hardly making a return above

their cost of capital, if at all.

Japan Airlines announced last

month it expected to make group

net losses of Y70bn for the past

fiscal year. The airlines, along

with oil and steel companies, are

all severely underperforming. And about half of second-tier

companies are trading near or

But help may be at hand. A few

Anglo-Saxon methods to boost

profitability, cash flow and share

prices. If such techniques were

widely adopted, the structure and

profitability of Japan's corporate sector could be transformed,

restoring the country's economic fortunes in the process.

"Many western critics of the

Japanese system have long

argued that the country only

needed to become more

Anglo-Saxon to escape the mal-

aise," argues Ken Okamura,

Benson in Tokyo. "It may sound

arrogant, but that doesn't make

The idea that Japanese compa-

nies need to sharpen up comes as

a surprise to many. After all, this

was the nation that perfected

just-in-time management and

introduced the world to the con-

cept of continuous improvement.

And several of Japan's compa-

nies, such as Toyota, Honda and

But many others are woefully

mefficient. Often protected from

outside competition by non-tariff

barriers, most have been

obsessed by capacity increases,

market share and sales growth.

Some invest oblivious to the need

never recoup the cost of invest-

ment. In other words, they have

The result is that the average

return on equity for Japanese

companies last year was just 4

per cent, against 20 per cent in the US. This is not just the result

of the recession: a particularly

damning statistic is that the

return on equity of the biggest

exchange peaked as long ago as

1978, according to SBC Warburg.

The scale of the mismanage-

ment is astonishing, says Step-

hen Hay, head of research at

Goldman Sachs in Tokyo. He esti-

mates that, on average, US com-

panies in the S&P Industrial

index generate a return above

their cost of capital of 4.5 per

cent. In contrast, Japanese non-

financial groups in the Nikkei 300

have collectively failed to achieve

a return above their cost of capi-

tal since 1990. Goldman Sachs

calculates that since then they

have destroyed value to the tune

of Y2.000bn a year - a cumulative

Y21,000bn through investing in

projects and plant that generated

negative returns.

been destroying value.

Sony, are truly world class.

it anv less true."

ese companies are adopting

below their break-up value

The corporate sector is in just

persistent stagnation.



### FINANCIAL TIMES

Number One Southwark Bridge, London SE1 9HL Tel: +44 171-873 3000 Telex: 922186 Fax: +44 171-407 5700 Wednesday May 6 1998

## Franco-German fractures

As Jacques Chirac and Relmut Kohl begin their bi-annual Franco-German summit tonight in Avignon - a city that has known schisms of the past - the memory of their confrontation over the presidency of the Euro-pean Central Bank will be painfully fresh in their minds.

In blocking a full term for the Dutch candidate Wim Duisenberg, Mr Chirac claimed his dispute was only with the Netherlands, not with Germany. But the untruth of this statement was evident in the German chancel-lor's admission that last weekend in Brussels was his "most difficult" European summit. And in his 16 years in office he has In the long sweep of the

Franco-German relationship, enshrined by Adenauer and de Gaulle in the Elysée treaty of 1963, the central bank row could be recorded as just a blip were it not for an accumulation of irritants and strains in many other areas. On reform of EU institu-tions, France has taken a stand not with Germany but with Italy and Belgium in favour of more decision-making by majority vote. In armaments co-operation, the French state's dithering about privatising its defence holdings is causing a break-up of joint ventures with German companies. In foreign policy, Bonn and Paris have recently found themselves somewhat at odds over how the EU should treat Turkey. On top of all this, Mr Kohl just does not get on with Mr Chirac as well as he did with the late François Mitterrand. Moreover there is the prospect that this September's German elections will see the political demise of Mr Kohl, one of the best German chancellors the French have

Reciprocal bargain

At the same time, one should not idealise the Franco-German relationship of yesteryear. The two countries have indeed acted as start, at Avignon, to try to put the motor of European integra- their bilateral relationship on a tion. They did so at the outset, sounder footing, starting with an with their reciprocal bargain of a acknowledgement of recent probcommon market for French food lems. But in doing so they must and German industrial goods. pay more heed to other Euro-They went on to inspire the cre- peans than in the past.

ation of the European Monetary System and now the euro. And in a way that once seemed highly improbable, Paris has come around to accepting, even embracing, new members from eastern Europe partly in return for Bonn's support for a more

But the two countries have frequently been at odds over tax, free trade and defence policy. The Chirac-Kohl spats are not the first between their leaders. Relations between Willy Brandt and Georges Pompidou in the late 1960s and early 1970s were consistently cool. In fact, the utility of the Paris-Bonn special relationship not only to themselves but to other EU members lies precisely in the fact that France and Germany remain such different countries and societies. EU debates on multilateral trade, European defence or even electricity liberalisation, tend to polarise around German and French positions. Bringing these strategist at Dresdner Kleinwort two positions together is often the secret of getting wider EU

But such agreements cannot be at the expense of other EU members. The Netherlands must be feeling this week that, in the end, Germany sacrificed Mr Duisenberg for France. Other EU states' traditional fear of a Franco-German directoire has receded as Paris and Bonn have found it harder to get their act together. Equally, there is even less excuse for such a directoire. now that Tony Blair's Britain looks set to play a full EU role by edging

closer to the euro. In the next couple of years, the EU will have to reform its finances and policies in advance of enlargement. These reforms cannot and should not be settled by Franco-German fixes, but could be complicated by Franco-German rows. French and German leaders should therefore

## Last chance on Middle East

In two years as Israeli prime of intensive talks in London, Mr minister. Benjamin Netanyahu Netanyahu has still not accepted. has managed to reach one, partial peace agreement with the Palestinians, and that was 16 months ago. This involved a prolonged renegotiation of an overdue Israeli commitment to hand back most of the West Bank town of Hebron. One might, with charity, have interpreted this as an attempt to tighten up security provisions in the Oslo accords agreed by the late Yitzhak Rabin - which Mr Netanyahu regards as a threat to Israel's survival rather than a compromise underwriting the Jewish state's future

in the Middle East. In this week's US-led negotiations in London, Mr Netanyahu has tried to repeat the operation, only this time he wants to renegotiate the Hebron deal which he signed. And this after the US had persuaded the Palestinians to accept about a third of what they had expected at this stage in returned West Bank land.

Like all agreements reached under Oslo, Hebron sought to build a bridge to the next stage in the process. Thus, Mr Netanyahu committed Israel to "redeploy" troops from the West Bank and hand over significant chunks of it to the Palestinians, in three stages culminating at the end of next month. But there have been no withdrawals, because Israel first offered a derisory amount of territory, and then threw the whole process into crisis by expanding Jewish settlement of occupied Arab east Jerusalem and the West Bank.

Dangerous spiral

7.7.2

The US convened the London talks to try to break this dangerous spiral. Madeleine Albright. US secretary of state, proposed a phased Israeli withdrawal from 13 per cent of the West Bank in return for greater Palestinian efforts to shut down Islamist terror networks, a further redeployment by the end-of-June Hebron deadline, and a "time-out" on

Israeli settlement building. Yassir Arafat, the Palestinian leader, said in February he would accept the deal, and Washington agreed he would not be bargained agreed ne would not be out after two days the US at its head, spelt-this out. | well as enjone that the tough down further. But after two days

The right-wing nationalist Israeli leader wants to retain all the cards before negotiations on a final settlement - which under Oslo should be concluded on May 4 1999. But he clearly envisages no more than administrative self-government for the Palestinians, on at most half the West Bank or roughly a tenth of historic Palestine.

Reflect and consult

President Bill Clinton has now invited the two leaders to Washington next week, to give Mr Netanyahu some days to reflect and to consult with his rightwing cabinet allies. It is already clear that while he may swallow the 13 per cent withdrawal he wants either to fudge the rest of the US package or so dilute it with conditions as to place its worth to the Palestinians in doubt.

Israeli pressure through Mr Netanyahu's allies in the US Congress has prevented the administration from even making public its modest proposal. It should now do so. For this is surely the last chance for Oslo, which is the key to a comprehensive Middle East peace. If Israel will not meet such modest demands, it will be impossible to believe its current government wants such a peace.

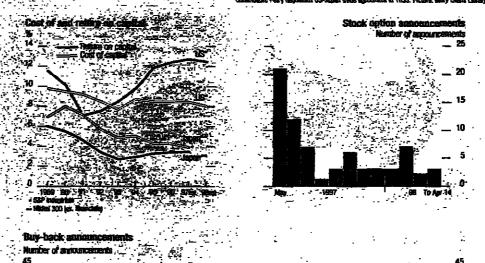
If there is no real movement by the Hebron deadline moreover. the leading Arab states have said they will consider the peace pro-cess dead and re-examine from scratch their relationship with Israel. European Union countries are coming to similar conclusions. But what of the US?

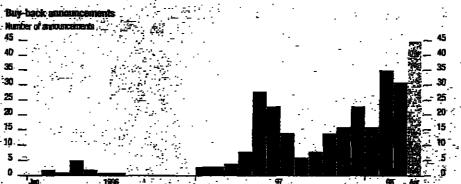
Washington cannot enforce a solution. But both as regional policeman and as Israel's friend, it has the responsibility to set out what it believes the solution should be. The equation is simple, if not simply arrived at. The Palestinians must eventually have a state as the logical conclusion to the Oslo process. This is the only way for their rights to be met and for the Israelis to achieve the secure future which is their right. It is high time the international community, with

## Japan's ray of hope hese are desperate days in Japan. The world's

Desperately poor returns are forcing the corporate sector to look at Anglo-Saxon solutions, finds Paul Abrahams







of making a return on capital, spending on projects that can concern for what companies were doing with their money.

Everything has changed. Now the economy is in recession. Many pension funds, burdened Banks, faced with huge bad panies have net cash on their is held by friendly companies. loans, are busy cutting credit lines.

There are signs that this bleak companies on the Tokyo stock situation is prodding Japan's more imaginative companies into making structural changes. Unable to obtain financing from banks, they are being forced to turn to new sources of cash either from the bond market or from shareholders. For the first time. Japanese companies are having to consider the interests of investors. There are several signs of such change:

> Over the past two years, about 70 quoted companies have announced share option schemes for senior employees. The fact that executives can make money if their group's shares rise is one of the most powerful tools in the Anglo-Saxon armoury for ensuring they pursue shareholders' interests with vigour. By the end of March, more

This massive misallocation of apital was just about sustainthan 270 quoted companies had able during the 1980s. Then, the announced plans to buy back economy was growing fast, investheir own shares. More companies are following suit, almost tors were content with capital gains on their appreciating without exception to shareholder

shares rather than dividend enthusiasm. Shares in Sumitomo are beginning to be threatened by income, and banks lent with little Metal Mining jumped 18 per cent the loss of their jobs through on its announcement of a buy- mergers and acquisitions. Westback last month, while Nippon ern investment bankers have Steel's shares rose 15 per cent. Shareholders like buy-backs level of M&A activity in Japan, because of their potential effect restricted by the complex system

books. Since debt is cheaper than

'A few Japanese companies have suddenly realised that investors

matter'

number of shares in issue, lowering the cost of capital and scotching the temptation to waste spare cash on bad investments.

The scale of such buy-backs could be huge, believes Kevin Hebner, strategist at SBC Warburg in Tokyo. "There are few barriers to restructuring the balance sheet ... Shareholders are pleased because return on equity goes up, while employees - the traditional stakeholders - keep their jobs."

Managers who underperform tice notwithstanding, the speed

long complained about the low by poor returns from their invest- on poorly structured balance of cross-shareholdings through ments. are effectively bankrupt. sheets. A third of blue-chip com- which up to 60 per cent of shares

But as in some continental equity, it often makes sense to European countries, such as borrow money to reduce the France and Italy, these crossshareholdings are gradually already doing this. Cosmo Oil, for unwinding. "Long-suffering instance, has outsourced its comshareholders have typically waited for years for things to get better." says Hugh Trenchard. director in charge of investment banking at Robert Fleming in Tokyo. "Now they are beginning to lose patience "

> company, and NCR, the US data mass redundancies in their nonwarehousing and computer core operations. Even the most group, have launched tender offers for their quoted Japanese subsidiaries, taking advantage of low share prices. Privately, western companies say such deals are partly motivated by the need to anese companies to close down gain control ousting poorly per-

forming management. "There are more deals in the pipeline. Japanese financial institutions are under pressure and talking about things that even months ago they were reluctant to consider," says Mr Trenchard. Such shifts in corporate prac-

and extent of change should not be overstated. Some observers are cynical. "You have to ques-tion the real commitment of Japanese managers to their compa-ny's investors," warns Mr Okamura at Dresdner Kleinwort

Many of the share buy-backs have been small and announced just before the financial year-end, apparently motivated by an attempt to boost share prices in the short term, he argues. More-over, not all companies that announced buy-backs have actually implemented them. And share option schemes still represent only a tiny proportion of remuneration compared with the US, or even Europe.

As for mergers and acquisitions, high barriers remain. Disclosure by Japanese companies.is below western standards, making it difficult to know exactly what is being bought. Management is seldom willing to cede control, and hostile bids are almost

Nonetheless, share buy-backs are a potent agent for change, insists Shigeki Makino, portfolio manager at Fidelity Investments. the fund managers, in Hong Kong: "This is a step-change. A few Japanese companies have suddenly realised that investors matter. Maybe only 10 per cent know why they are doing it, but the other 90 per cent will have to

Once the process begins it will be hard to stop, argues Mr Heb-ner: "Restructuring the balance sheet is the easy part. But once cash becomes a precious commodity, it immediately leads on to the next stage - allocating capital efficiently."

That represents "a revolution in Japanese management techniques", enthuses Noriyuki Uematsu, head of value-based management at consultants Deloitte Tohmatsu in Tokyo. "Tradition ally, Japanese companies did not care about allocation of capital, nor the return on that capital. They invested in all their businesses and if they ran short of cash they just borrowed from hanks. Now a few companies in each sector are beginning to use cash-flow techniques to work out the return on each project."

The main implication of this is that companies will increasingly shun investments in low-return projects. "That means they have to choose between businesses, deciding which are core and worthy of investment," says Mr Llem-

The logical conclusion is that many non-core businesses will cing of, for example, information technology or distribution departments. A few companies are puter operations to Intec. a Japanese computer services

These changes are happening. But no one should expect an overnight revolution. Few commentators, for example, are pre-TI Group, the UK engineering dicting companies to announce radical are likely to place such businesses in subsidiaries, selling them at a discount and thus permiting the buyer to keep on the employees. "It's still hard for Japbusinesses." says Mr Uematsu.

The pace may be far frein breathtaking, but change is inevitable. "Those companies that don't transform the way they allocate capital will be like frogs in a pan of hot water," says Mr Hematsu, "As it approaches boiling point, they don't realise they

Ginancial Times

#### **OBSERVER**

#### **Where there's a** Wim there's a way

The French might think they came out runaway winners in the veekend came of hardball over the presidency of the European Central Bank, but the Dutch political elite haven't hung up their padded gloves just yet. Finance minister Gerrit Zelm lost

no time in making clear that the French didn't have it all their own way during that 11-hour Brussels lunch. He's been pointing out to the Dutch press that Wim Duisenberg is to stay as Europe's monetary main man for a minimum of four years - and could hang on rintually as long as he chose, maybe even into 2003.

Also unearthed by The Hague's spin-doctors is documentary evidence intended to show that there was no retreat, no compromisa, in a November 1996 interview, when Duisenberg seemed likely to waltz into the European Central Bank unopposed, the silver-haired central banker confided that he was not committing himself to a full eight-year term in Frankfurt. So what if these crucial comments appeared in the less than agenda-setting pages of feminist magazine Opzij?

But Parks won't be too concerned about the fighting talk emanating from the north-east. The realists in the Elvsee will know as well as anyone that the tough

consumption: the Dutch covernment, after all, faces a general election today.

#### What a turn-off

Hard to believe, but not everyone in France is looking forward to this summer's World Cup football tournament with equal gusto. An organisation called La Coupe est Pleine (The Cup Is Fulf) plans early next month to send its growing list of members a newsletter giving details of non-football-related events throughout France during the tournament. It also intends to

it's good news for the 70 per cent of French women who told a recent opinion poll that they're "indifferent" to the World Cup. La Coupe est Pleine already boasts 500 members and Christine Lam, one of the founders, says there are "nearly as many men as women".

#### Bearded wonder

open an internet site.

There's more to Archbishop Christodoulos, newly elected head of the Orthodox Church of Greece, than a long cassock and a bushy beard. A lawyer by training who later switched to theology - he has a PhD in canonical law -Christodoulos speaks five languages and has promised to spruce up church policy.

Improving relations with relations with other churches is one priority. Greek Orthodox bishops have been bickering with Islanbul-based

Patrierch Bartholomew, spiritual

leader of Orthodox Christians worldwide, over ownership of church estates in northern Greece. Relations with the Vatican are cool.

Close to home, Christodoulos also says the church needs to get closer to ordinary people; to prove the point he'll be popping along to a Rolling Stones gig in Athens this

But being modern has its limits. The Archbishop reckons Greece's Orthodox priests should go on wearing their distinctive stovepipe hats and ankle-length black cassocies. Younger clerics planning to take trim their bushy beards should think again.

#### Premier points

Secret documents of dubious origin have been flying round Prague like irate pigeons in the run-up to next month's elections in the Czech Republic. Opposition leader Milos Zeman is doing most of the cooing.

The would-be premier has produced what purports to be evidence that the resignation last November of prime minister Vaclav Klaus was a conspiracy hatched between rebellious cabinet members and President Vaclay Havel. His documents also allegedly showed that Jan Rumi. one of the ministers who helped topple Klaus, met the secret service chief to discuss mounting a campaign of dirty tricks against the Social Democrats.

Ruml denies the allegations and says Zeman is paranoid, It's not

the first time Zeman has encaged in cloak and dagger intrique. Last year, he took a briefcase of documents on government corruption to Havel - but was sent packing when they were shown to

Six weeks to go before polling day and who knows what's going to turn up next?

#### Double trouble

Former top CIA agent Ryszard Kuklinski returned to his native Poland last week as a hero, at least to anti-Communist Poles. But not every former Warsaw pact country has welcomed one-time double agents back into the fold.

Take Istvan Belovai, once of

Hungarian military intelligence, who

in 1984 had a change of heart and blew the whistle on what became known as the Conrad spy ring. A year later Belovai received a life sentence from Hungary's supreme court and, while he was released following the collapse of communism, to this day lives with a record as a traitor. This rankles with a man who reckons he helped avert a third world war, Beloval may be living safely in the US but, like his Polish counterpart, he wants a full pardon. "Something's wrong, when former Communists who worked for the Soviet Union are leading Hungary's march into

NATO, while I am still a criminal."

claims to be Hungary's first Nato

says the former double agent, who

#### 100 years ago Millioneires At War One of the advantages of the

present deplorable struggle between Spain and the States is that it affords employment for out-of-work millionaires. According to the New York correspondent of the "Daily News" no less than nineteen sons of millionaires are serving as common sallors with the American fleet, while Mr. Sims of Providence, "a millionaire several times over, is now acting as chief engineer on board one of the United States cruisers." If the Spaniards would only succeed in capturing some of these wealthy sallors and engineers and hold them as hostages, they might obtain a substantial set-off against the indemnity they will probably have to pay when the war is over.

#### 50 years ago

Belgium Seeks New Govt. Brussels, May 5. M. Paul Henri Spaak's Coalition Government resigned to-night over the 75-year-old question of State subsidies to Catholic schools. A Government compromise on this issue, which the Prime Minister said he would make a question of confidence, was rejected by Socialists in the Chamber of Deputies this afternoon.

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**WEDNESDAY MAY 6 1998** 

A new approach

to vehicle leasing.

#### THE LEX COLUMN

## Living dangerously

Were it not for mounting social unrest. Indonesia might be looking like a recovery story. After all, President Suharto seems finally to be drinking the unpleasant medicine needed to stabilise the economy. Unfortunately, it is precisely measures like this week's 71 per cent rise in petrol prices that are stoking the student

This carries risks for investors. One is that Mr Suharto will go slow on economic reforms out of fear of antagonising his people. The other is that the protests will sweep him from power.
At present, this does not look likely; the

army is behind Mr Suharto and is backing the crackdown on dissent. Of course, many investors would be delighted if a credible new leader could be installed smoothly - such is Mr Suharto's reputation for backsliding and cronyism. The snag is that unseating him could provoke a bloodbath.

Only the most hardened investors should dream of entering this hornet's nest. With interest rates soaring and the economy shrinking, it is hard to see any point in investing in Indonesian equities. For anybody determined to take a punt, short-term government paper is probably the best bet. The tight monetary policy means this provides a good return in local currency terms. Meanwhile, the fact that the International Monetary Fund rescue package is seemingly back on track with another \$1bn in hard currency flowing in this week - should give some support to the ruplah.

#### Internet stocks

Plain old websites are getting boring. The latest internet trend is to build full-blown "portals" - point-of-entry sites to the net that are festooned with everything from browsers, directories and e-mail to games, online shopping and "chat" services. The logic is persuasive: the best portals will attract the most web traffic, allowing their owners to sell the most advertising.

.The scramble to assemble the broadest sible mix of products and services is eading to frenzied deal-making. Following a recent link between Yahoo!, the higgest internet search engine, and telecommunications group MCI, its smaller rivals Excite and Lycos have teamed up with

Dollar term

Netscape and AT&T respectively. The Excite/Netscape pact is the boldest. Excite is keen not on Netscape's original browser software but on its brand and its popular Netcenter website, both of which it feels have been under-exploited. Excite is betting the shop that it can do a better job by paying Netscape \$70m cash up front more than Excite's entire 1997 revenues.

Investors have greeted these deals enthusiastically, as a sign that the internet might be on the verge of becoming a money spinner. But because it is far too early to pick the winners from this largely loss-making crowd, they have sent stocks soaring across the board. With Yahoo! now worth \$5bn or 40 times this year's turnover, valuations have completely lost touch with reality.

#### Hoechst

With a share price performance resembling the Matterhorn, Hoechst presents a wonderful example of two big pitfalls for investors. The first is of a management talking a good story, but failing to deliver. The second is of the market underestimating the difficulty of imposing radical change on ossified businesses. But exnectation and reality now look to be in kilter at the drugs and chemicals group. The odds are shortening on pleasant surprises. At the heart of the group that Jürgen

Dormann, chairman, is reinventing is Hoechst Marion Roussel, the drugs and agrochemicals business. In the past three years about DM17bn (\$9.55bn) has been spent on pharmaceuticals acquisitions uriority.

CONTENTS

and restructuring, but the return has been poor: last year's operating profits from both new and old parts were only DM1.65bn. But now that the overpayments are history, attention should turn to prospects. Hoechst has promis ed two drug launches a year from 1999, 8-10 per cent annual sales growth and margin improvement. That makes the group's market value of three times the drugs unit's sales - the global leaders are on 7-9 times - look undemanding.

Such a view would be reinforced if the long-drawn out disposal of the industrial chemicals side, with DM22bn of sales, can recoup the group's near DM17hn net debt. This would leave agrochemicals and various other investments in the current valu-

#### North Sea oil tax

Is the UK government earning sufficient rent from its hydrocarbon reserves? Gordon Brown thinks not. With a consultation document on a new offshore fiscal regime overdue, the oil industry is nervous. Plans to increase the North Sea tax take, some £3.6bn (\$6bn) in 1996-97, by a mooted £500m-£1bn a year will squeeze the industry hard - all the more so with the oil price averaging \$14 a barrel in the first quarter of 1998, compared with about \$20 in 1996-97. The hardest hit proportionately will be independents, such as Hardy, Monument and Enterprise, but the majors will not escape unscathed.

With marginal tax rates in the UK among the lowest in the world, the gov-ernment will have an easy enough case to sell to the public if it decides to re-impose a "super-profits tax" on previously exempt fields. Halving the oil allowances - currently used to great effect to minimise tax liability - would be another way of milking the cow. Alternatively, levying a supplementary corporation tax - against which interest costs would not be deductible - would at least be straightforward.

Clearly the government will have to temper its enthusiasm for extracting a "fair" tax take with the need to maintain incentives for investment. Since development decisions for some less robust pro jects are on hold until clarity on the fiscal regime emerges, drawing this consultation process to a rapid close should be a

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## Stronger US growth is expected in second half

Pace of price increases will continue to slow, say purchasing executives

By Gerard Baker in Washington

US economic growth will accelerate in the second half of 1998, and the pace of price increases will slow further, according to an influential survey of manufacturing executives.

The National Association of Purchasing Management said its members expected overall business conditions to continue to improve after a robust start to 1998, but the effect of the strong dollar and the Asian financial crisis would bite deeper into export prospects.

In its half-yearly economic survey published yesterday, the association found that 52 per cent of respondents expected conditions to be better in the second half of the year than in the first.

Asked about the outlook for the next 12 months, 59 per cent said they were optimistic, the same as reported last December. This is the nighest level since May 1988.

Purchasing executives report a similar level of optimism for the coming year as they did a year ago," said Norbert Ore, chairman of the association's survey committee

The report will raise new question taken by the Federal Reserve. Figures last week showed the economy grew at a rapid 4.2 per cent annual rate in the first three months of the year, in line with the frenetic pace of the last 18 months.

Sustained growth of that nature would normally prompt the central hank to raise interest rates to slow things down, but Fed officials have said they expect the economy to slow significantly over the rest of the year of its own accord.

But if the economy does maintain its pace of growth, as purchasing agers expect, some members of the Fed's policy-making open market committee will press for a rate rise sooner rather than later.

The FOMC next meets on May 19, but few economists expect a rate increase at that time. More likely would be a move at the subsequent sion on July 1-2, if the economy is still expanding rapidly.

But complicating the Fed's task is the gradual disappearance of infla-tion. In the first four months of the year, purchasing managers reported

that prices declined on average by marks over the direction of policy of per cent. More executives now taken by the Federal Reserve. Figare forecasting a rise.

However, manufacturers have become noticeably more pe about export prospects. One-fifth of respondents expect either a substantial or a moderate decrease in export business in the second half of the year, against the 6 per cent forecast. ing a decline last December.

For the first time, Asia appeared on the list of executives' 10 greater economic concerns - in fourth place behind labour costs, the overall economy and inflation.

Separately, the Conference Board, private sector research group, reported that the index of leading indicators, which predicts economic activity in six to nine months' time rose by 0.2 per cent in March, led by strong money supply growth and a rise in stock prices.

Alan Greenspan, the Fed chairnan, met President Bill Clinton yesterday for talks about the state of the economy. White House officials emphasised that the meeting was a

## China hits back at India after 'security threat' accusations

By James Kynge in Beijing

defence minister yesterday after he accused the Chinese of being India's greatest security threat, providing missiles to Pakistan and stockpiling nuclear weapons in Tibet.

The heated exchange indicated a severe setback for years of bilateral confidence-building" measures which culminated in a visit to India by Jiang Zemin, the Chinese presilent in late 1996.

Diplomats said the sudden souring in relations between Asia's most populous powers was almost certain to become an issue for US diplomacy before planned visits by President Bill Clinton to Beiting in June and

New Delhi later this year. George Fernandes, the Indian defence minister, made his comments just days after a visit by General Fu Quanyou, the chief of Chi-

are a pillar of the global economy.

Peace and prosperity cannot be ach-

ieved without partnerships involving govern-

ments, international organisations, the

business community and civil society. In

today's world, we depend on each other.

The business of the United Nations involves

such as aviation, shipping and telecom-

munications provides the very foun-

dation for international transactions. Our

advocacy of human rights nurtures

democracy and good governance, two

essential weapons in the fight for human

freedom and the battle against corrupt-

ion. Our efforts to eradicate powerty

create new markets and new opportun-

ities for growth. Our peacekeeping and

emergency relief operations in war-torn

nations bring the stability needed to

regain the path to long-term develop-

ment. Our untiring efforts to build

societies based on the rule of law pro-

mote regulatory consistency and peace-

ful change. We also help countries to join

the international trading system and

enact business-friendly legislation.

Technical standard-setting in areas

the businesses of the world.

"China cannot but express its China strongly denounced India's utmost regret and resentment." The remarks by Mr Fernandes would "seriously sabotage the favourable atmosphere for developing friendly relations".

"His so-called view that China constitutes the principal threat to India is absolutely ridiculous and not worthy of refutation."

Some analysts believe a sense of frustration in New Delhi over rapidly warming ties between the US and China ahead of the June summit may have prompted Mr Fernandes' remarks. Such warmth irks New on India to make recturocal arms Delhi, particularly because China is control concessions. one of the staunchest allies of its arch-rival, Pakistan.

Sujit Dutta, a senior fellow at the United States Institute of Peace in Washington, said there was a sense in New Delhi of an increasing US tendency to treat China as a protagona's People's Liberation Army, to nist in most of Asia's security issues. New Delhi. Zhu Bangzao, China's This should be balanced by greater

foreign ministry spokesman, said: US dialogue with other countries in the region, he said.

185 E E E E

Diplomats in Beijing said that by identifying China overtly as a security threat. New Delhi was availing itself of a stronger argument against any pre-summit intensification of US pressure to sign the Comprehensive Test Ban Treaty or the nuclear Non-Proliferation Treaty, which seek to

curb the spread of nuclear weapons. There was a sense in New Delhi that, if Washington persuaded China at the June summit to sign the Missile Technology Control Regime, this might result in increased pressure

By signing the accord. China would have to stop exporting missile technology.

China, which shares a 3,840km border with India along the Himalayan mountains, is an established nuclear power. India describes itself as having a "threshold" nuclear pro-

## Pfizer forum

The UN and the Private Sector: "Markets for a better world"

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In Bailer et Ghazzat province, southern Sudan, where 350,000 people suffering from famine, villagers wait for aircraft to drop food. Page 4

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Citrilise: how to get share prices and market records by telephone and fexback. http://www.ft.com/newspaper/2176.htm rveys: details of forthcoming editorial

#### FT WEATHER GUIDE

#### Northern France, the Low Countries and the far north of Germany will be cloudy with spells of rain, but most of the rain should be fairly light. With pressure low. many parts of Scandinavia will also have rain, turning wintry over the stem Europe, but central parts

mountains. The rain will extend into will be brighter with light showers The Ibertan peninsula will be dry with plenty of sunshine. The centre ean will be showery, but the east will be not and mostly

#### Five-day forecast

**Europe today** 

The eastern Mediterranean will have spells of heavy and thundery rain by the end of the week, but the rest of the Mediterranean will be dry and warm. Scandinavia w remain unsettled. Central and western Europe will become warm and mainly sunny, although there will be a risk of thunderstorms in



PA WEATHER CENTRE 

Sun Reim Shower Sun Reim Reim Shower Fair Thunder Drzzi Fair Sun Shower Fair Raim Raim Carro Caractas Cardiff Casabtas Chicago Cologne Deltar Deltal Dubai Dubai Dubain We can't change the weather. But we can always take you where you want to go. Lufthansa

Buxiness has a compelling interest in the success of this work. Creating wealth. which is business's expertise, and promoting human security in the broadest sense, the UN's main concern, are mutually reinforcing goals. Thriving markets and human security go hand in hand. A world of hunger, poverty and injustices is one in which markets, peace and freedom will

> and helped generate a sustained period of integration enough to narrow the widening gap between rich and poor? How can

we best integrate developing nations into the global economy? Can markets deal with the negative side effects of globalion? Can we find ways to cope with the kind of volatility we have seen in Asla and elsewhere, and minimise its impact on ordinary people?

Interdependence is a two-way process. What happens in developing countries affects the developed nations, and vice versa. There are victims and beneficiaries. There are people who have lifted themselves out of poverty, and

Thriving markets and human security go hand in hand

others who remain mired in denrivation. A global marketplace can only work effectively if it is able to address its inherent shortcomings and contradictions. Market capitalism has no major ideological rival. Its biggest threat is from within itself. If it cannot promote both prosperity and justice, it will not

Giobal society, if it is to flourish must also work from shared norms and objectives. Fortunately, the basis of that n understanding already exists; it found in the United Nations Charter. Freedom, justice and the peaceful resolution of disputes; social progress and better standards of living; equality, tolerance and dignity, these are the universal values set out in the Charter. They define the true human interest. They are also a pillar of the global economy.

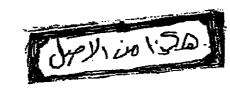
Markets do not function in a vacuum. Rather, they arise from a framework of rules and laws, and they respond to signals set by Governments and other institutions. Without rules governing property rights and contracts; without

out an overall sense of direction and a fair degree of equity and transparency, there could be no well-functioning markets, domestic or global. The UN system provides such a global framework - an agreed set of standards and objectives that enjoy worldwide acceptance. A strong United Nations is good for business.

The advent of a global economy may eem kresistible and inevitable. To many it has brought great riches. To others it seems exclusionary, exploitative, intrusive and even destructive. We must remember that globalisation has not just happened; it has been the result of deliberate policy choices,

Leaders of Government and business ntinue to have choices. So let us choose to unite the power of markets with the thority of universal ideals, and to reconcile the creative forces of private entrepreneurship with the needs of the disadvantaged and the requirements of future generations. Let us ensure that prosperity reaches the poor. Let us choose an enlightened way forward towards our ultimate shared goal; a global marketplace that is open to all and benefits all.







FINANCIAL TIMES

## **COMPANIES & MARKETS**



#### INSIDE

Ajax to raise FI 124m in offering AFC Alax, the Dutch football club, is set to raise FI 123.75m (\$61.65m) through a share issue priced at FI 25 apiece. The 4.95m units offered represent 27 per cent of the club's capital, with many pre-placed among more than 15,000 fans. Page 24

Nuveen investors demand sale The pressing issue - for the second year running - when the shareholders of John Nuveen, the quoted \$50bn asset management group, meet in Chicago tomorrow, will be the group's under-parformance in the booming US mutual fund sector, Some disgruntied shareholders are even asking directors to find a buyer or merger partner for the 100-year-old company immediately. Page 18

Cotton growers call for review The indian textile sector, the country's biggest employer, has again been hit by a "series of errors" in the season's cotton crop forecasts. The industry is calling for a review of the forecasting system after estimates of a bumper harvest led

mills to reduce their cotton stocks - before a late

monsoon confounded expectations. Page 26

Fannie Mae set to price fifth jumbo The Federal National Mortgage Association (Fannie Mae) will today price its latest jumbo lesue – the fifth since it launched its "reference notes" programme earlier this year. The 10-year \$3on offering, to be priced at about 33 basis points over the 10-year Treasury, takes the borrower's total jumbo issuance to just under \$20bn for the year. Page 24

ICICI calls in McKinsey for synergy Expansion in investment and retail banking has left Industrial Credit and Investment Corporation -India's second-biggest financial group - with an unwieldy assortment of subsidiaries alongside its traditional business of term lending. ICICI has thus called in McKinsey, the management consultants, to chart a business structure as it tries become the country's first universal bank. Page 17

IPE reveals emission permits plans The international Petroleum Exchange in London revealed plans to develop trading in carbon dioxide emission permits. Emissions trading would allow companies to emit as much pollution as they had permits for. Those that cut pollution could sell or lease their surplus permits to those who could not cover the value of their emissions. Page 25

#### Birth of the euro

ndia after

**USations** 



NEW FT STATISTICS The FT's new statistical service covering data relating to European Monetary Union is today on page 23. The service covers equilies, currencies, money and bonds.

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WEDNESDAY MAY 6 1998

## Liffe to launch 10-year euro contract

Swap rate investment will compete with German government bond futures market led by rival Deutsche Terminborse

By Edward Luce in Losdon

The London International Financial Futures and Options Exchange will today announce plans to launch later this year the first 10-year interest rate futures contract to be denominated in the euro, the future European single currency.

The contract is based on the so-called swap rate, which is linked to the gap between the rates on fixed and floating rate borrowing, and would compete directly with the 10-year German government bond future

Terminborse, Liffe's Frankfurtbased rival, has a majority share.

An official at Liffe, which will hold a board meeting today to discuss reforms designed to restore the exchange's tarnished reputawould almost certainly be traded electronically rather than on the trading floor. Earlier this year Liffe said it would develop its own elec-

system, enabling it to trade electronically before the launch of European economic and monetary union next Jan-

Officials say it is looking closely at the system used by tion, said the new contract Matif, France's derivatives exchange. "It makes sense to launch this contract electronically," said a Liffe official, "It is technically compatible with

tronic trading system, which it would launch in late 1999. will become the benchmark tary union. Liffe hopes that

- a market in which Deutsche Today's move indicates that it reference rate in the the 10- banks and brokers that use the will probably buy an existing year euro-denominated intermark a radical departure in a existing government bond conmarket dominated by instruments based on government bonds. No other derivatives exchange has launched a swaps-based contract.

The DTB, which won majority market share from Liffe in the 10-year German government bond future in January, will continue to offer a contract based on the German Liffe hopes the new contract government bond after mone-

exchange will trade to its new est rate market, which would swaps contracts rather than tracts.

Investment bankers say pricing in the swaps market is more efficient than in the gov-ernment bond market. For example, the differential the general reduction in interbetween 10-year Italian govern- est rates and long-term inflament bonds and German bonds tion expectations over the last remains at about 0.25 percent-age points but has fallen to the volume of trading in lonjust 0.05 percentage points in ger-term swaps agreements (up

price-sensitive and liquid than the market for government bonds," said the Liffe official. The over the counter swaps

market - where banks and brokers buy and sell contracts privately rather than by dealing through an exchange - has grown strongly in line with the 10-year swaps market. to 10 years or more) has grown "The swaps market is far more markedly.

## French tycoon Pinault buys 29% stake in Christies

By David Owen in Paris and David Biackerell in Loadon

François Pinault, one of France's most colourful businessmen, has become the biggest shareholder in Christies International, buying 29 per cent of the international auctioneer's ordinary shares from Joseph Lewis, the Bahamasbased billionaire.

No price was disclosed for yesterday's deal, conducted through Artémis, Mr Pinault's holding company.

Mr Pinault will meet the Christies board in the next few

Shares in the auctioneer closed up 13%p at 298p, valuing the group at £503m. The shares are still below the level of just over a year ago but well above the 255p on February 19 that included Mr Lewis.

Guy Bell, an analyst with Beeson Gregory, said the sale would rekindle bid speculation that died down after the failure of the talks with SBC Warbury Dillon Read.

Mr Pinault, the son of a Breton forester and a noted art lover, is adding the Christies stake to a list of international trophy assets that includes Chateau-Latour, the celebrated Bordeaux wine label, and Vail, the ski resort of the rich and famous in Colorado.

Artémis said the purchase was part of its long-term investment strategy. Mr Pinault is understood to have

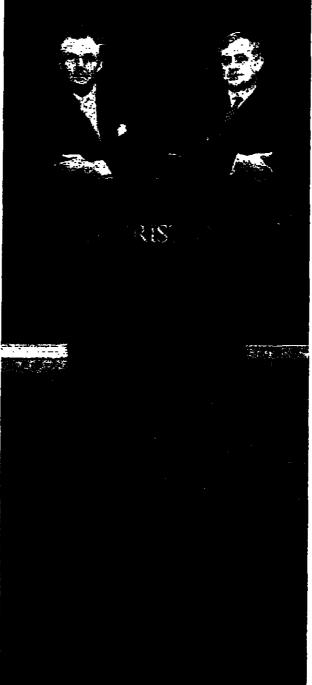
been attracted both by Christies' international reputation and the sentiment that markets it serves will continue to develop.

His move comes when the closed world of the French auction business is poised to be opened up to the big international houses such as Christies and Sotheby's in compliance with EU competition legislation.

The transaction is to be financed through a mixture of cash and debt. It is not yet clear whether Mr Pinault whose favourite artists include Rothko and Pollock - or another Artémis representative is to ait on the Christies board.

Companies linked to Mr Pinault have recently embarked on a spending spree, following after news of the collapse of an his abandonment last October attempt by SBC Warburg Dil- of a FFr30bn (\$5bn) hostile bid lon Read to take the group pri- for Worms & Cie, the French vate on behalf of a consortium financial and industrial conglomerate. Artémis owns nearly 43 per cent of Pinault-Printemps-Redoute, the French retail group, and a controlling stake in Seffmer. the French property company. Two years ago Christies

overtook arch-rival Sotheby's for the first time in 48 years. In February it consolidated its lead with a 20 per cent rise in profits before exceptional items to £40.6m. Sales put under the hammer were also 20 per cent higher at £1.22bn, including £180m from the New York sale of the Ganz collection of twentieth century art and the Loeb impressionist col-



Christies chairman Lord Hindlip, left, and finance director Peter Blythe the group," he said.

## CVRD set to sell stakes in Brazil steel holdings

By Gooff Dyer in San Paulo

producer, Companhia Vale do to support his view. CVRD Rio Doce (CVRD), is close to owns 22.7 per cent of CST, 9.6 announcing the sale of its per cent of CSN and 7.7 per shareholdings in the Brazilian cent of Usiminas, giving it an steel industry, in a move that important role in the Brazilian could hasten the sector's consolidation.

CVRD, which became Latin America's biggest ever privati- had the opportunity to nearly sation exactly one year ago, double its \$3bn annual exports may also merge its large paper and pulp business with a rival company, said Benjamin Stein- and the international demand bruch, CVRD's chairman. It for steel plates. would be the first stage in the widely expected restructuring the industry would have to

of the Brazilian group.
The decisions Mr Steinbruch The decisions Mr Steinbruch large groups with greater econ-makes about the future shape omies of scale and financial of the group will have a significant impact on the development of several of Brazil's most important industries. He said Mr Steinbruch, who is said his ambition was to turn also chairman of CSN. CVRD into "the first Brazilian multinational".

A controlling exporter, was bought for potential. R\$3.36bn (\$3.83bn) by a consortium led by CSN, Brazil's largest steel group. It also included NationsBank of the US, a number of Brazilian pension funds and Opportunity, a Brazilian

investment manager. Mr Steinbruch said it did not make sense for CVRD to have large amounts of capital invested in steel companies. "As long as we can be sure of good long-term supply contracts [of iron ore] with steel companies, we should invest this capital in other parts of

Although this was a per-The world's biggest iron ore thought the board was likely steel industry's complex shareholding structure.

Mr Steinbruch said Brazil of steel because of its low costs, plentiful raw materials

However, to meet this target consolidate into two or three muscle. "This has to happen rapidly. The market will not be there if we wait for two years,"

The first step in the consolidation process is likely to CVRD, Brazil's biggest steelmaker with large growth

> However, the Brazilian companies face competition from Usinor of France, which is considering buying a 30 per cent stake in CST.

> Mr Steinbruch said Brazil's paper and pulp sector also had the potential to become a leading force in the industry, but only if it achieved greater economies of scale.

He said his preferred course of action was to merge CVRD's paper business with another company and that the group was currently "courting" a



BARRY RILEY

## Trusted stats . . . one day

If there are lies, damned lies and international investment performance statistics, an impressive effort is under way to change that. An important collaboration between investment professionals in the US, Europe and south-east Asia has produced a discussion document on Global Investment Performance

Standards (GIPS). The intention is to develop the Performance Presentation Standards introduced in the US by the Association for Investment Management and Research in 1987, and harmonise them with other approaches, such as the code adopted by UK pension funds.

A fairly leisurely timetable

has been adopted. A discussion

period runs until the end of this year. Beyond that, some proposals may not be adopted until 2005 or even 2010, because this is a framework rather than an instant solution. But the intention is to make it possible for global portfolio managers to compete fairly for cross-border

There are three dimensions to the GIPS. First comes the technical matter of the formulae for calculating returns. Questions like cash flow, exchange rates, accrued income and tax treatments must be barmonised. For professional funds the technical side should be

relatively straightforward. Not

Beardstown Ladies investment

so for amateurs: the premium

performance record of the

club, Illinois, melted away

embarrassingly when re-calculated as a time-weighted rate of return.

There was also the case of the UK's two leading performance measurement agencies – WM and CAPS – which, until a few years ago, differed noticeably in their calculations of the total return on the All-Share Index because of income timing differences.

That was harmonised. But even now they differ by 30 basis points on the total return of the World ex-UK Index: 19.0 per cent for 1997 says CAPS; 19.3 per cent says WM. But as the Americans have emphasised in naming their PPS, presentation can be an

Investment firms are notorious for presenting results selectively - over odd periods or by using favourable peer group benchmarks, say. Big problems are posed by the make-up of what the

even trickier issue than

calculation.

Americans call "composites"; supposedly comparable groups into which funds with particular objectives or styles fall. Such composites can be manipulated - one of the best-known problems being "survivorship bias" by which only the most successful, continuing portfolios stay around to be counted, while the poor performers conveniently disappear. There are also regular attempts by managers to impress with simulated numbers or with

figures for different portfolios

The suggestion is that there

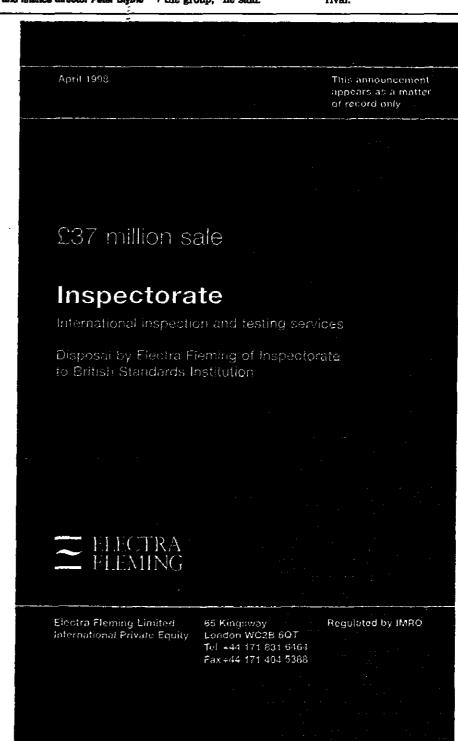
should be a rigorously presenting performance, based upon five years of results. Eventually the record is to be extended to 10 years.

On composites, the approach is to insist that the included funds are selected before the start of the measurement period and not afterwards. This may eliminate deliberate bias, although the selfregulatory approach could still mean that different firms' composites are less than fully comparable.

Hence the GIPS' third leg verification, which indeed takes as much space in the discussion document as the section on calculation and presentation. But verification will not become mandatory until 2005 or even later.

The big accountancy firms have taken on much of the US verification responsibility, although they have been criticised for focusing too much on box-ticking and for not being prepared to challenge clients over judgmental issues like the "cherry-picking" of funds in composites.

So there are inevitably gaps in the GIPS. There is a danger that enforcement will vary in quality in different countries. It remains to be seen whether national regulators will give consistent support, and whether local practices present obstacles. But progress has been impressive. Perhaps one day we will be able to trust giobal investment performance statistics, after all.



One-off gains lift

MeritaNordbanken

NEWS DIGEST

MentaNordbanken, the Swedish-Finnish bank formed in a

to post a 67 per cent leap in first-quarter pre-tax profits.

FM1.88bn to FM3.13bn (\$579m), helped by strong perfor-

mance of the bank's bond portfolio and exceptional gains of

FM1.4bn from a share disposal and a non-recurring dividend.

to FM1.7bn. The bank stressed the first-quarter figure from

income for the latest quarter was unchanged at FM2.68bn.

last year was also inflated by one-off gains. Net inter

Stripping out non-recurring items, pre-tax profits amounted

driven by non-recurring gains. The profits climbed from

merger last year, yesterday overcame flat net interest income

INSURANCE FRENCH GROUP CLOSER TO BECOMING EUROPE-WIDE OPERATOR THROUGH PLANNED BFr120bn DEALS

## Axa set for full control of Royale Belge

By Neil Buckley in Brussels

France's Axa-UAP moved closer to becoming an integrated, Europe-wide insurer vesterday as it revealed plans to take full control of Royale Belge, Belgium's second biggest insurer, through deals totailing about BFr120bn (\$3.26bn).

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The French group is unwinding an 11-year-old ioint-control agreement of Royale Belge with Albert Frere, the Belgian financier. by buying his direct and indirect stakes and launching a public offer for the 37 per cent of Royale sition, Mr Bébear envisaged

back to Mr Frère, or to third together Royale Belge and parties, stakes in his businesses held by Axa.

Claude Bébéar, Axa chairman, said recent decisions well as combining UAP-NR confirming the launch of the euro strengthened the group's desire to bring together its European businesses after the merger with UAP 18 months ago, and to create a single identity. "Our domestic market is

no longer France, it is really the whole European market," he said. After Axa's Belgian acqui-

The deal includes selling tions, including bringing Axa Belgium, the country's stxth biggest insurer, to create a new market leader, as and Axa Leven in the Netherlands, and Royale UAP and Axa Luxembourg

> in the Grand Duchy. was also part of Axa's effort to become a global concern in financial services, Mr Bébéar said, drawing parallels with the Citicorp-Travelers and NationsBank-Bank-America link-ups in the US.

The move represents fur-

further Benelux reorganisa- ther simplification of Mr Frère's complex web of businesses. Even after buying back his own shares from Axa, the secretive financier will add to his cash pile, prompting speculation about his strategy.

Analysts suggest he may increase his stake in Suez Lyonnaise des Eaux, the European consolidation French utility giant of which he is already largest shareholder, with 12 per cent

Mr Bebear valued the Rovale Belge deals at about FFr20bn (\$3.3bn), or half cash. They have two

25.1 per cent held by Groupe shareholders to swap three Bruxelles Lambert, a Frère Royale Belge shares for five company, in Royale Vendome - the vehicle through which the two companies jointly control Royale Belge. Royale Vendôme currently has 51.2 per cent of the Bel-

Mr Frère will receive shares worth BFr15bn, for a capital gain of BFr18bn. A second Frère company is selling its 2.05 per cent direct stake in Royale Belge, under the terms of the public offer.
Axa-UAP will then launch a share exchange offer for

gian insurer.

Axa-UAP is buying the the quoted stock, inviting Axa-UAP shares, plus

BFr16bn in cash plus Axa to third parties - up to 13.1 per cent of Groupe Bruxelles Lambert held by Axa and Royale Belge, for about BFr20hn. Another Frère holding. Fibelpar, will buy back stakes held by Axa and Royale Belge for about

Renault,

announce

bus tie-up

Renault VI and Iveco, the

truck and bus units of

France's Renault and Fiat of

Italy, are poised to announce

a joint bus development in a

new example of consolida-

The agreement, which has

been under discussion for

two years and could be

announced today, is expec-

ted to cover joint develop-

ment and production of a

range of single-decker buses

to seek a larger share of the

22,000-units-a-year west

Bus building is seen as one

of the last big manufactur-

ing businesses to experience

modernisation, as the arrival

of big pan-European bus

operators is expected to

force busmakers to invest in

modern factories and newer

The deal would mark a

further strengthening of the

ties between RVI and Iveco.

which in the past 12 months

have resulted in joint devel-

opment of truck cabs and

the purchase by Iveco of

RVI's firefighting vehicle

However, even pooling

their resources would leave them trailing the market

leader, Mercedes-Benz,

which accounts for nearly

one in three of buses sold in

the region. Iveco has about

and Renault VI about 10 pe

The expected move also

comes as the French com-

pany seems well on the road to recovery after accumu-

lated losses of more than

FFrlbn (\$167m) in the past

two years. In March, it

announced that its order

book had doubled in the

space of a year.

products.

European bus market.

tion in a fragmented sector.

By David Owen in Paris and John Griffiths in London

Fiat to

#### BFr21.513 in cash and one "certificate of guaranteed value", offering a further payment linked to Axa's share price in July 2001. In return, Mr Frère will buy back - or arrange to sell

#### Overall, lending rose 8 per cent. Greg McIvor, Stockholm DNB ousts chief executive

BANKING

Den norske Bank, Norway's biggest, last night announced it had ousted Finn Hvistendahl, its chief executive, because it needed a new leader to confront new challenges, it said Mr ristendahi would stand down on June 30 to make way for Svein Aaser, deputy head of Nycomed Amersham, the Anglo-Norwegian drugs group. Reuters, Oslo

FOREST PRODUCTS

#### AssiDomän up 27% in quarter

AssiDomän, the Swadish paper and packaging group, yester. day announced a 27 per cent increase in first-quarter profits, confirming the current upswing in the forestry cycle. Pre-lax profits advanced from SKr360m to SKr456m (\$59.3m) on turnover up from SKr4.8bn to SKr5.7bn. The improvement was underpinned by strong earnings growth at Assi's flagship packaging division, where operating profits jumped from SKr105m to SKr141m. Greg Metvor

**METALS** 

#### FFr1bn pay-out to Eramet

Eramet, the nickel, manganese and high speed steels producer, is to receive FFr1bn (\$167m) in compensation from the French government for agreeing to swap its Koniambo nickel deposit in New Caledonia for the smaller Poum deposit owned by Société Minière du Sud Pacific.

Mining rights to the two deposits are to be transferred to an independent legal entity until Falconbridge, the Canadian mining group, completes a feasibility study on a 54,000 tonnes a year nickel smelter on New Caledonia and gives the go-shead for construction.

Eramet is still 55 per cent owned by a French state holding company. France's former centre-right government caused a storm among minority shareholders when it threatened to take Koniambo from the company to help further its political aims for New Caledonia. Kenneth Gooding, Mining Correspondent

**TOBACCO** 

#### Tabacalera posts 42% advance

Tebaçalera, the Spanish tobacço group, followed its recent privatisation with the announcement of a 42 per cent lump in first-quarter net profits to Pta5,75bn (\$37,9m).

Operating profits almost doubled to Pta6.07bn against Pta3.11bn in the same period last year. The company said the improvement reflected growth in all three of its main business areas - cigarettes, cigars and distribution - as well as cost control measures. David White, Madrid

#### Audi confirms Lamborghini talks

Audi, Volkswagen's luxury car division, yesterday confirmed it had held talks with Lamborghini, the Italian sports car manufacturer. The negotiations centred on the use by Lamborghini of Audi engines, but the German carmaker indicated that a possible takeover by VW of Lamborghini was also discussed.

We do not comment on speculation. We can say, however. that in the course of the discussions there was discussion about other possibilities," Audi said.

The German carmaker is currently preparing a fresh bid for Rolls-Royce Motor Cars, the UK luxury car company. The management of Vickers, the UK Industrial concern, has agreed to sell Rolls-Royce to BMW. However, VW is hoping to persuade Vickers' shareholders to overturn the decision. Graham Bowley, Frankfurt

**PACKAGING** 

#### **KNP** unit ahead

The packaging unit of KNP BT, which the Dutch group is seeking to sell, lifted first-quarter operating profits by 10 per cent to FI 68m (\$34m). This was in spite of a decline in sales to FI 722m from FI 779m, reflecting previous divestments from

Group net earnings were ahead 21 per cent to FI 63m. This was helped by a reduction in the interest bill from FI 45m to Fi 32m. KNP last year sold its papermaking division to Seppl, of South Africa. Gordon Cramb, Amsterdam

Incorporated in France with limited liability and issued capital of FRF 13,459,350,300 Headquarters: 42 avenue de Friedland, 75008 Paris, France Registered in Paris under no. 780 129 961

COMPAGNIE GÉNÉRALE DES EAUX

#### NOTICE OF A SECOND BONDHOLDERS MEETING

Holders of Compagnie Générale des Eaux March 1997/April 2003 Equity linked zero coupon bonds, previously invited to the Tuesday 3:30 p.m., May 5, 1998 General Meeting of Bondholders which was unable to obtain a quorum, are hereby re-invited to attend the General Meeting of Bondholders on Tuesday, May 12, 1998 at 3:30 p.m. The agenda of the

 Report of the Board of Directors on the sale of the Compagnie Générale des Eaux business consisting of the management of a portfolio of media, publishing and communication securities and real estate holdings to Havas Media Communications (HMC), in exchange for HMC shares. HMC became a subsidiary of Compagnie Générale des Eaux following the absorption of Havas. Approval of the sale.

D Powers to carry out formalities and to file the documents relating to the Meeting.

Formalities to be complete to entitle bondholders to attend the meeting: Registered bondholders must be recorded in their name in the Company's register at least

five days prior to the date of the Meeting.

Holders of bearer bonds are required to transmit to the banks and credit institutions that participated in the bond issue, for receipt at least five days prior to the date of the Meeting. a certificate issued by their bank, broker or other intermediary, stating that the bonds have been placed in a blocked account preventing their sale prior to the date of the meeting. Admission cards and forms of proxy are available on request to holders of registered bonds.

The text of the proposed resolutions and the Board of Directors' report are available for consultation by bondholders at the Company's head office.

The Board of Directors

## German banks warm to Russia's invitation

By Andrew Fisher in Frankfurt

It was a mild joke doubling as a gentle rebuke to foreign banks for being so hesitant to enter Russia, "I think Russian banks can sleep well as foreign banks are not competitors in banking business, said Sergei Aleksashenko, deputy head of the country's central bank.

He was speaking as Deutgest bank, opened a new banking subsidiary in Moscow last week, upgrading its representative office and combining commercial

"I would like to see foreign banks more active in Russia," said Mr Aleksashenko. He stressed that he wanted foreign banks to be active in all commercial and investment banking sectors.

Until now, there have been more reasons for caution than boldness. But German banks are gradually shedding their reservations about Russia as the economy makes faltering progress and the government weathers successive crises.

Rolf Breuer, chairman of Deutsche Bank, said Russia was developing in a way that

meant "conditions for is there, but the environfavourable business development have improved consid-

erably". Next month, Commerzing operation in Moscow. Dresdner Bank already has commercial and investment hanking activities there in a joint venture with Banque Nationale de Paris. Westdeutsche Landesbank is also sche Bank. Germany's big- in Russia. Germany is Russia's biggest trading partner,

big part of their business. But it will take some time before foreign banks - there and investment banking are fewer than 20 wholly foreign-owned banks in Russia - make up a significant slice its capital market activities, of the Russian banking mar having helped arrange more per cent of the total bank assets in the country.

so trade settlement forms a

The German banks hope Russia is finally on the way to solid economic and finanafter meeting Sergei Kiriyenko, the new prime minister, that he was impressed

Martin Kohlhaussen,

ment - considering the legal, social and tax aspects - is not reliable enough. One has to be there, one has to be bank will open a full bank- alert, one has to try business - and I believe there is a lot of business - but one has to be very risk-minded."

Deutsche plans to build its Russian operation gradually. Thus Mr Breuer did not expect the Moscow-based operation to make a significant contribution to earnings for some time. "We do not have to produce big profits in the first three years.' Initially, the bank expected to break even in Russia.

Deutsche plans to increase ket. Mr Aleksashenko said than \$8bn of credits and they accounted for only 6.5 loans for Russia since the start of 1996, said Hubert Pandza, head of its Moscow operation. From there, he will also oversee activities in those former Soviet repubcial reform. Mr Breuer said lics known as the Commonwealth of Independent States. Next month, Deutsche will open an investment by the government team in banking operation in

Almaty, Kazahkstan. The bank was lead manchairman of Commerzbank, ager for the recent \$230m believes banks still need to unsecured syndicated credit DM1.25bn Russian govern- taking stakes in local banks, be cautious, "The potential for Gazprom, the Russian ment eurobond.



energy group. It is also arrfifth biggest Russian bank. Deutsche, which has played a leading role in settling the old Soviet debt problem, was lead manager in the recent

It also aims to help attract anging a eurobond, likely to more foreign investment to be for less than DM500m Russia, as well as developing (\$281m), for SBS Agro, the mutual funds business among Russian savers. though this is still a thin market in view of the hugely unequal spread of wealth. Nor was the bank averse to

## Italy steps up privatisation programme

The Italian government into European monetary

vatisation programme. The Treasury is to launch this summer the sale of a fourth tranche of shares in Eni, the oil and gas group, as offering for Banca Nazionale del Lavoro, the country's fifth largest bank in terms of

IRI, the state holding comday its roadshow for a L900bn (\$512m) offering to institutional investors of shares in Alitalia, the followed by a public offer in national airline, and con- October. firmed its intention eventu-

in the autumn. will involve a 12 per cent stake and is expected to raise about L12,000bn for the Treasury. The sale will bring the government's stake in Eni below 50 per cent, to 39.6

per cent. the first stage in the privatipany, also launched yester- sation of BNL, in which the government owns an 85.5 per cent stake, involving an institutional placement to be

The Treasury has already

ally to dispose of its entire drawn six potential bidders bank. This would also sim- new Italian international IRI also plans to sell its large stake in BNL. These yesterday followed its entry remaining 54.2 per cent hold- include five domestic banks. Napoli, the Naples bank coning in Aeroporti di Roma, and insurance companies – trolled by a holding comunion by accelerating its pri- the Rome airport operator. INA, IMI, Credito Italiano, pany 51 per cent owned by between Rome and Milan, The fourth Eni tranche paschi di Siena - and one

foreign bank, Banco Bilbao Vizcaya of Spain. chairman, said yesterday he was "moderately satisfied" by these expressions of interest, although he admitted he The sale will coincide with would have liked to have seen more interest from for-

> eign banks. INA, which is widely seen as favourite to become BNL's strategic partner, yesterday confirmed its interest in buying control or a significant stake in the Rome

interested in acquiring a plify the proposed merger hub airport at Malpensa. between BNL and Banco di 65km outside Milan. Banca Intesa and Monte dei INA and 49 per cent by BNL. However, the Treasury

may consider selling more than one strategic stake. Mario Sarcinelli, BNL INA, the insurance group, alia's managing director, hairman, said yesterday he said it was willing to have yesterday insisted that Malsaid it was willing to have The Alitalia share offer, meanwhile, will cut IRI's 85 per cent stake to 67 per cent.

It will fall to 53 per cent after an issue to employees. However, the airline's financial recovery and restructuring, as well as its privatisation, has hit turbulence because of the contro-

The new airport is at the 15 per cent of the market, centre of a political battle cent. with Rome fearing Malpensa will undermine its international airport of Fiumicino. Domenico Cempella, Alit-

pensa would open for business, on time, at the end of October. Pietro Ciucci, IRI chief

Malpensa furore would not delay the sale of its remaining stake in Aeroporti di Roma, the Flumicino airport operator and rival of Maipensa. The sale is expected versial decision to open a to raise about 1.2,000bn.

executive, said yesterday the "After the recovery in the second half of 1997, the Renault VI group should be

#### back in the black in 1998," it The group described 1997 as a year of growth in market share for coaches and buses. French unit sales totalled 1,970 coaches and

1,075 buses. The Renault group as a whole marked its centenary by reporting 1997 net income of more than FFr5bn, a sharp turnround from the previous year's loss of more than FFrabn. Renault VI has invested

heavily in new models in recent years and is making concerted efforts to cut

#### SCHRODER INTERNATIONAL SELECTION FUND Société d'investissement à capital variable

NOTICE TO SHAREHOLDERS ANNUAL GENERAL MEETING OF SHAREHOLDERS

of Schroder International Selection Fund will be held at its registered office at 5, rue Hühenhof. L-1736 Semningerberg, at 11,00 am on Toesday 26th of May 1998, for the purpose of considering and voting upon the following matters:

Acceptance of the Directors' and Auditor's Report and approval of the financial statements for the year ended 31st December 1997. Distribution of final dividend.

3. Discharge of the Board of Directors and Auditor,

4. Re-election of Directors. 5. Re-election of Auditor.

Any other business.

Resolution on the items on the agenda will require no quorum and will be taken on the majority of the votes expressed by the shareholders present or represented at the REGISTERED SHAREHOLDERS

Registered shareholders who cannot attend the meeting in person are invited to send a duly completed and signed proxy form to the registered office of the company to arrive not later than May 22nd, 1998.

BEARER SHAREHOLDERS In order to take part in the Meeting of 26th May 1998, the owners of bearer shares must deposit their shares five business days before the meeting at the registered office of the Company as ser out above, or with:

Schroder Investment Management Limited 33 Gutter Lane

Proxy forms for the meeting will be sent to registered shareholders with a copy of this Notice and can be obtained by bearer shareholders from the registered office.

The Board of Directors

## SBC seeking SFr2bn from

By William Hall in Zurich

Swiss Bank Corporation is vate banking subsidiary, which it has to sell as a con-UBS, its bigger rival.

authorities to merge with

of 706.

is considered a frontrunner for BSI, since it recently raised SFr1.5bn (\$1bn) by selling its asset management business and wants to expand in private banking. into the strategic plans of world's third biggest, still Edmond Safra, one of the has to win approval from the

vate bankers, Merrill Lynch, Robeco or HSBC.

establish a Swiss retail bank. It has also ordered UBS to maintain at pre-merger levtain small business loans that will increase because of the merger.

which they describe as "stringent but tolerable". The new bank, which in

# sale of BSI

believed to be seeking a number of conditions laid almost SFr2bn (\$1.3bn) for down by the Swiss Competi-Banca della Svizzera Ital- tion Commission. The iana, its Lugano-based pri- enlarged group must also dition of its merger with and Bosslab Corp. which It announced the sale yes-

BSL acquired by SBC in 1991, is one of Switzerland's larly large market share. To largest private banks with assets of SFr5.9bn and a staff

Although the bank has a chequered profit record and is less efficient than UBS's Banca di Lugano, which land should be sold to a sinremains inside the enlarged group, there is likely to be considerable foreign interest in BSI. It is highly unusual for a large Swiss private els until the end of 2004 cerbank to be put up for sale. Liechtensteln Global Trust

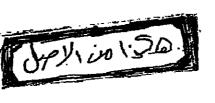
accepted the conditions, However, BSI could also fit terms of assets will be the world's most successful pri- US regulatory authorities.

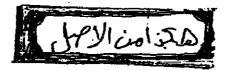
The sale of BSI was one of

sell Solothurner Bank, a cantonal bank rescued by SBC, provides information technology for various retail terday as it was given the banks. go-ahead by the Swiss The The commission also required the enlarged UBS to

sell up to 35 branches in areas where it has a particuprevent competitors "cherrypicking" the best branches, group of 25 branches, with a network in all three main language areas of Switzergle buyer who wants to

UBS and SBC have





INDIA INDUSTRIAL GROUP FOCUSES ON CONSOLIDATION IN FIBRE, CEMENT AND IRON AFTER 13% DECLINE

## Falling prices take toll on Grasim

In Bombay

bleak trading environment facing much of hit by overcapacity and fal-India's heavy industry was evident yesterday when Grasim, the diversified industrial flagship of the

the year to March 31. Grasim, which produces pany operates". cement, textiles, iron, pulp, soda and viscose staple fibre, strategy is focused on appeared, as last year's blamed the decline on weak

inter the COUNT

2 - 2005 F 42 : 2007

The second of the

sales rose 12 per cent to Rs40bn, but the group was tering demand.

The board said the results were "extremely encouraging when viewed against the year. A. V. Birla group, reported a backdrop of the worst downsectors in which the com-

further consolidation in the

almost all its divisions and player - that is, viscose sta- A V. Birla group companies. claim that "the south-east ple fibre, cement and sponge iron."

The company's accounts show cement prices were 16 per cent lower last year than in the previous financial Domestic sponge iron

prices were flat. The decline in profits was It added: "Grasim's growth less precipitous than it results were flattered by a

ble at Rs5.7bn. However, Rsl.5bn to Rsl.7bn, while the tax burden went up from Rs410m to Rs450m.

There are few signs of an are tough, in cement they imminent recovery. Analysts are excruciatingly tough," 13 per cent fall in pre-tax turn of its kind in many prices were down 8 per cent, said the company was said Jal Irani, an analyst at profits to Rs2.6bn (\$65m) for years in all the commodity while viscose staple fibre caught between rising input Jardine Fleming. costs and falling end-product prices. In the past year, government-controlled transport, coal and power tariffs have increased sharnly.

Operating profits were sta- Asian meltdown also impacted Grasim's profitabildepreciation rose from ity", saying that domestic overcapacity was a much bigger problem.
"Conditions in sponge iron

> Grasim has suffered more than most cement producers

because it is based in Madhya Pradesh, in central India, far from more lucra-However, most analysts tive markets in the

Production increased in tinues to be a dominant Rayon to Hindalco, both dismissed the company's north-west and south of the country.

comes from Grasim's viscose staple fibre division, which lifted profits.

Grasim is the world's big gest producer of viscose sta ple fibre and dominates the domestic market, which gives it some leverage over

The fibre is also a produc which ultimately sells to the household sector, where demand remains buoyant in spite of India's industrial

## **UCPB** delays

By Justin Marozzi in Manila

Bank has delayed its annual shareholders' meeting until a new administration is elected, following the recent move by Eduardo Cojuangco, a business associate of the late president Ferd- entirely of government inand Marcos, to regain control of the government-sequestered Philippine bank.

UCPB, which administers a 27 per cent stake in San Miguel, the food and beverage group, announced the postponement in a newspaper advertisement yesterday, after Mr Cojuangco last week petitioned the antigraft court to allow him to vote a 35 per cent stake in the bank.

The meeting, which was will now take place on adequate time to resolve the issues". UCPB said.

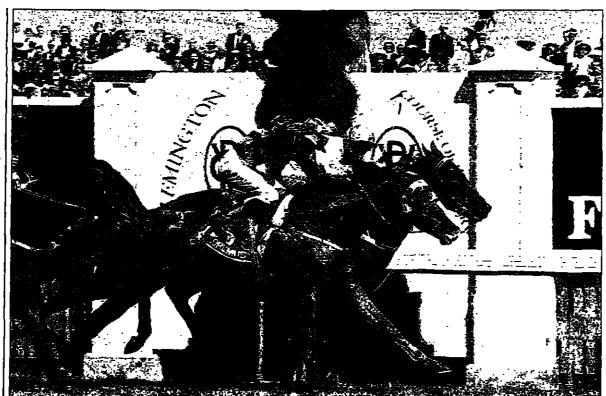
azon Aguino administration. uel. which sequestered shares in the grounds that the investments had been made by Marcos cronies using public

would be expected to look more kindly on Mr Coju-United Coconut Planters angco's tussle with the government.

Efforts by Mr Cojuangeo, former chairman and chief executive of UCPB, to get back into the bank - where the board of 15 consists appointees - are believed to be linked to his legal victory last month, when the antigraft court allowed him to vote 20 per cent of shares in San Miguel for the first time in seven years.

Over the weekend, however, Mr Ramos issued an executive order lifting the sequestration on coconut levy funds, assets and related companies worth 100bn pesos (\$2.5bn) which were established during the due to be held on May 14. Marcos administration to develop the coconut industry August 14 "to give the courts and administered by Mr Cojuangco. who was then head of the government The move by the bank coconut authority. A million comes amid pre-election coconut farmers paid levies activity linked to legal dis- and invested in companies putes dating back to the Cor- such as UCPB and San Mig-

Estelito Mendoza, the lawa number of companies on yer representing Mr Cojuangco, yesterday attacked the Ramos order, saying that by declaring the coconut levy a public fund, the presi-The Philippines holds dent was ignoring an earlier national elections on May 11. Supreme Court ruling definand Joseph Estrada, ing it as a private fund with vice-president and the lead- a public interest. "That is ing contender to replace -practically confiscating prop-President Fidel Ramos, erty," he said



## NSW sets prices for betting sell-off

The Australian state of New on June 22, one day after receive shares via their per cent already claimed by released indicative pricing known. details for the sale of its betting agency. Tab, which is released vesterday, sets a are limited to 35 per cent of A\$1bn (US\$644m), AP-DJ

reports from Sydney. Tab, which is the country's largest betting business and the fifth largest in the is scheduled to list on the

South Wales yesterday final pricing details are shareholders, will pay a

share for retail investors, through book-building. The who are also promised a spe- offer document has cial entitlement to 25 per cent more shares than the 700-share minimum if they A\$1.80 and A\$2.20 a share. world in terms of turnover, register their interest before midnight on Friday.

maximum of A\$2.15 a share. The public offer document, while the institutions, who expected to raise about maximum price of A\$2.05 a the offer, will bid for stock Sky racing channel to Tab, suggested institutions sub-

> The offer of 450m shares est and tax of A\$91.2m in the represents 90 per cent of current year, rising to

mit requests for between

News Corporation and Publishing and Broadcasting as part consideration for the sale of their jointly owned agreed earlier this year. Tab, the exclusive opera-

tor of off-course totalisers in New South Wales, is forecast to post earnings before inter-

#### **NEWS DIGEST**

#### PALM OIL

#### Foreign exchange losses hurt London Sumatra

London Sumatra Indonesia, one of the largest palm oil and rubber plantations, said foreign exchange losses of Rp75.7bn (\$9.4m) lowered 1997 net profits by 5 per cent and warned that high taxes and drought could hamper 1998 results.

Lonsum said net profits were Rp76.7bn, down from Rp80.6bn, while operating profits had increased 24 per cent to Rp126.0bn. The depreciation of the rupiah lifted the rupiah value of \$122m in syndicated loans and \$30m in forward swaps for dollars. Some are due this month, but the company did not report progress on rescheduling with its creditors.

The company said a new export tax of 40 per cent, replacing an export ban that hit first-quarter earnings, would hurt future earnings. Last year's prolonged drought is likely to depress production volume, it added.

Lonsum cut operating expenses by 19 per cent but its sales revenue, listed in rupiah for a dollar-denominated commodity, rose only 19 per cent despite a sharp depreciation of the rupiah in the second half of 1997. Sander Thoenes, Jakarta

#### MALAYSIA

#### Ekran buys back Bakun issue

Ekran, the Malaysian construction company, has bought back the M\$300m (US\$82m) bond issue intended to raise money for the Bakun hydro-electric dam project. The purchase, for M\$223.9m, was made because the government deferred and then assumed control of the huge dam project when the regional financial crisis took hold of Malaysia.

Ekran said it would save M\$6m a year in interest by buying all of the five-year, 2 per cent, bank-guaranteed redeemab bonds. Sheila McNutty, Kuala Lumpur

#### **AIRLINES**

#### Qantas lifts stake in Fiji carrier

Qantas, the Australian airline, will increase its stake in Fiji's Air Pacific from 17.5 per cent to 46 per cent in a F\$26m (US\$8m)

deal announced yesterday by the Fiji government. The sale, amounting to 28.5 per cent of the government's holding, is in line with its divestment policy and will leave the state with 51 per cent of the airline.

Air Pacific has reported profits for more than 10 years. It operates flights to Los Angeles, Tokyo, Honolulu, Australia, New Zealand and throughout the Pacific islands. AP-DJ, Suva, Fiji

#### **PHILIPPINES**

#### Provisions jump at FEBT

Provisions at Far East Bank & Trust, the Philippines' fifth largest bank by assets, jumped more than fivefold, from 97m pesos in the first quarter last year to 513m pesos (\$12.7m), the bank said vesterday.

FEBT said net profits rose 1.3 per cent, from 682m pesos to 691m pesos, limited by the increase in provisions to adapt to the difficult business environment produced by the Asian

"It looks as though the bank is setting itself up to ride out the challenges ahead," said one banking analyst at a foreign brokerage. "But what I'd like to know is whether non-perform-

## ICICI plots course to become 'universal' bank

Indian group is seeking to develop synergies within a growing assortment of subsidiaries, writes Krishna Guha

India's second biggest assets. financial institution - has called in McKinsey, the management consultants, to

try's first universal bank. The move follows aggresassortment of subsidiaries J.P. Morgan. alongside its traditional business of term lending.

"There is an urgent need to synergise group-wide activities," says K.V. Kamath, managing director. "The strengths are there but they are not synergised." He says a change in structure is necessary to ensure the various business operations do not conflict".

The McKinsey review will be greeted with relief by investors who admire ICICI's drive but fear it lacks the organisational capacity to expand rapidly while con-

trolling risk. announced a 40 per cent increase in net profits to Rs10.8bn (\$272m) for the year to March 31, but also revealed a jump in nonperforming assets from 6.5 per cent of the total to 7.6 ucts. But managing an ad

Industrial Credit and per cent. This is worrying, hoc structure is difficult. "It plans to introduce common needs," says Mr Kamath. He Investment Corporation - given a 27 per cent rise in

Earlier, J.P. Morgan pulled chart a new business struc- ICICI, citing differences in ture as it pushes ahead with strategy and competition plans to become the counfrom the parent company. sive expansion in investment I-Sec as a wholly owned suband retail banking, which sidiary, but this will not be has left ICICI with a fast- easy, as many of its top staff growing but unwieldy are poised to quit to join

> The decision is driven by a belief that the "universal bank" is the blueprint for the future of Indian banking. This is in sharp contrast to the past, when the industry was split into separate seg-

ICICI, as a development finance institution, was not allowed to accept deposits from retail investors, offer working capital loans, or develop investment banking. So it set up subsidiaries

out of its I-Sec investment banking joint venture with Mr Kamath says be was committed to building up

ments by regulation.

"Over the past 10 years we have created a commercial bank, an investment bank, Last month ICICI an asset management compuny and a retail financial services company as associates to mimic a universal bank," says Mr Kamath. He says the collection gave ICICI the full range of prod-

that ICICI was unable to get fer data. into each of these businesses The organisational To finance this, ICICI has itself." Now, following shake-up will reflect ICICI's launched a series of retail deregulation, it can. The determination to continue bond issues. But analysis McKinsey review is likely to recommend that ICICI commercial banking. It has ment bond issues with a regroup its banking subsid-

'Retail funds are unavoidable - the money market and debt market are

not deep enough to meet our needs' K.V. Kamath, managing director.

and ensure different compa-

and ICICI credit [a financial services company] are money. "Retail funds are doing," says Mr Kamath. unavoidable - the money same in many ways." He not deep enough to meet our banking system.

is a transitional arrange- technology platforms allow- aims to increase loans by ment. The only reason the ing group companies to between 20 per cent and 25 subsidiaries were set up was cross-sell products and trans- per cent a year, an annual

> The organisational its advance into retail and targeted short-term working more act capital loans. "Going ground. forward I can clearly see 35 to 40 per cent of my business in this area," says Mr

Kamath. This will bring ICICI into more direct competition with India's established commercial banks, which are also pushing into its core business of term loans.

CICI has one big advanorganisation, it has more flexibility in selecting staff and paying market rates than public-sector banks. It iaries under a central hold- also has financial muscle ing company, putting in only State Bank is comparaplace "Chinese walls" to ble in terms of assets. But avoid conflicts of interest banks have the advantage of big retail networks, which nies do not compete against bring in low-cost deposits products," he adds. each other. bring in low-cost deposits products," he adds. This attitude is informed "We have to look at what short-term corporate loans. ICICI bank [a retail bank] If ICICI is to achieve its ambitions it needs retail

disbursement of about \$4bn.

believe it needs to complemore active presence on the At the end of last year. ICICI agreed to buy ITC

Classic - the troubled financial services arm of Indian Tobacco - giving it a network of more than 1m depositors. It is widely seen as a potential buyer for one or more of India's mid-sized

banks. However, Mr Kamath is unenthusiastic. "In the tage: as a private-sector Indian context it is often easier to build de novo than acquire something and pay a fancy price." Nor is Mr Kamath keen on acquiring a low-technology "bricks and mortar" branch network, and "even a strate-

add to the bank's capital or by Mr Kamath's belief that Indian banks face a tough few years as India's economy goes through structural change. "There will be pain "Their customer base is the market and debt market are all round and pain in the

gic merger would have to

#### COMPAGNIE GÉNÉRALE DES EAUX

Incorporated in France with limited liability and issued capital of FRF 13,459,350,300 Headquarters: 42 avenue de Friedland, 75008 Paris, France Registered in Paris under no. 780 129 961

#### NOTICE OF A SECOND BONDHOLDERS MEETING

Holders of Compagnie Générale des Eaux March 1997/April 2003 Equity linked zero coupon bonds, previously invited to the Tuesday 3:30 p.m, May 5, 1998 General Meeting of Bondholders which was unable to obtain a quorum, are hereby re-invited to attend the General Meeting of Bondholders on Tuesday, May 12, 1998 at 3:30 p.m. The agenda of the meeting is as follows:

☐ Report of the Board of Directors on the sale of the Compagnie Générale des Eaux business consisting of the management of a portfolio of media, publishing and communication securities and real estate holdings to Havas Media Communications (HMC), in exchange for HMC shares. HMC became a subsidiary of Compagnie Générale des Eaux following the absorption of Hayas.

Approval of the sale.

D Powers to carry out formalities and to file the documents relating to the Meeting.

Formalities to be complete to entitle bondholders to attend the meeting: Registered bondholders must be recorded in their name in the Company's register at least

five days prior to the date of the Meeting. \*\*D Holders of bearer bonds are required to transmit to the banks and credit institutions that participated in the bond issue, for receipt at least five days prior to the date of the Meeting, a certificate issued by their bank, broker or other intermediary, stating that the bonds have been placed in a blocked account preventing their sale prior to the date of the meeting.

Admission cards and forms of proxy are available on request to holders of registered bonds.

The text of the proposed resolutions and the Board of Directors' report are available for consultation by bondholders at the Company's head office.

The Board of Directors

To the Holders and Beneficial Owners of Samsung Corporation Global Depositary Shares NOTICE IS HEREBY GIVEN TO THE HOLDERS OF THE ABOVE MENTIONED GDSs THAT: The Board of Directors Meeting of the Company, held on April 18, 1998, resolved to issue new

SAMSUNG CORPORATION

Type of Shares: Common shares in registered form. Number of Shares to be issued: 30,000,000 shares of common stock.

Method of issuance: Offering in priority of shareholders based on market price New Share Price: A New share price shall be the 30 percent discounted price of the price calculated in accordance with Financial Management Regulations governing listed companies. In case this 30 percent discounted price is less than KRW 5,000, the new share price will be set at KRW 5,000.

20% of Rights Offering shall be allocated for subscription by company employee

according to the Capital Market Fostering Law in Republic of Korea Remaining 80% of Rights Offering shall be allocated for subscription by shareholders registered on May 9, 1998 in the proportion of 0.34717 share per share (2 GDSs).

Provided that the proportion of allocation may be changed by the request for conversion of Convertible Bondholders, fraction of shares and unsubscribed shares

shall be offered for public subscription.

Subscription Period (Shareholders): June 8, 1998 ~ June 9, 1998. Subscription Period (Public): June 15, 1998 ~ June 16, 1998

Payment Date: June 23, 1998 8. Others:

The above items are subject to change by governing authorities. GDSs holders should contact the Depositary (Citibank, N.A.) for further information



## Taiwan 'set to lead Japan in notebooks'

By Laura Tyson in Taipei

7

Taiwan is likely to overtake a knock-on effect on the Japan as the world's biggest producer of notebook computers this year as falling prices in the personal computer industry force a shift to numble and cost-effective to go to Taiwan, Mr Lee Taiwanese suppliers, according to a Taiwanese notebook

muker. I. J. Lee, president of Twinhead International, predicts Taiwan's world market share of notebook output will jump from 34 per cent in 1997 to 45 per cent in 1998. Last year Taiwan made 4.7m notebooks, compared with year. Japan's 5.6m, of a total worldwide of 14m.

down prices for desktop PCs many users will opt for the to make notebooks in Japan, to below US\$1,000 is having notebook segment as well as components. As a result, depends on the Japanese Japanese notebook makers, yen. historically reluctant to produce offshore, may be forced

"sub-\$1,000" notebooks. "If Liu Chi-tung of SBC War-we can reduce the price of a burg. "All this is definitely new models sooner. At the will spark a big boom in the notebook market," he said. yen." "Maybe this can be achieved by the first quarter of next Pujitsu and Hitachi, have

"If the price of a notebook can be brought down closer ing to Taiwanese suppliers. screen, the most expensive with Toshiba to make LCDs.

convenience of a laptop." However, electronics ana- Taiwan. lysts caution that much

"Japanese suppliers used to target the high end of the anese or Korean counter- may well fall further. market. The low-price trend has forced them to go mid-He predicts that the next market and they will need to wave in the PC cycle will be do more outsourcing," said notebook to three digits, this going to help Taiwan, but same time, they can manuhow much depends on the

Two Japanese groups. Japan has lost its stranglealready shifted a portion of

The trend that is driving to that of desktops, then Dell, the U\$ PC maker, used part of the notebook. Korea began producing LCDs in the third quarter of but now outsources in last year and prices have

> manufacturers are faster and more flexible than their Jap- a year ago to US\$350, and parts, electronics analysts shorter, so they can respond facture products of equal

this trend. First, Taiwanese

to changes in the market first LCD factories begin more quickly and bring out production. quality at lower prices. Another factor is that the US to make LCDs.

Several factors are fuelling since plummeted. For exam-

hold on a key component - maker, also recently distheir notebook manufactur- the liquid crystal display closed plans to co-operate

Acer, Taiwan's biggest PC maker, recently announced a

Prices of LCDs are expecsay. Their design cycle is ted to fall again in late 1999 or early 2000, when Taiwan's

ple, the cost of a 21.1 inch

LCD has fallen from US\$700

ioint venture with International Business Machines of Winboad, a Taiwanese chip-

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## Junk bond market surge set to continue

in New York

18

The year's surging highyield, or junk bond, market in the US is expected to continue this week with two of the more unusual, and controversial, new corporate debt issues.

Amazon.com. the online book seller, was late yesterday expected to launch \$275m in senior discount notes with five-year zero coupon. Analysts expect the yield to range from 10 to

The other offering is noon trading yesterday. \$200m in new issues by Oxford Health Plans, the market have difficulty troubled managed care provider. The Oxford issues are expected to be priced to yield 11 per cent.

The two deals have drawn admirers and detractors in the corporate market for very different reasons. Amazon.com has been

investor greeted by enthusiasm in the stock Microsoft or it could be out market, with its share price rising from \$18 at its initial offering in early 1997 to \$94.75 in early after-

But analysts in the bond predicting how the

fast-changing world of internet commerce will alter over the life of the new value a company with few tangible assets. Over the course of the 10-year life of this bond the

"The economics of the issues, as well as how to internet service providers haven't quite been worked out yet, and you cannot be flow will be sufficient to company could be a meet its debt service five years hence," said Steven Ruggiero, director of high of bustness," said Gary Goodenough, a portfolio manager at Loomis Sayles, yield security research at Chase Securities. an investment advisory firm.

The structure of the behind it are surging the issue of payment of fees. Amazon.com offering demand figures for its reflects the recent popularity internet-based business. of zero coupon issues, by reflected in its fast-growing which no payments are revenue performance. made until the note's expiry Oxford Health Plans

presents a different set of risks for debt analysts. The company has faced a series of billing and other certain that Amazon's cash financial difficulties, producing net losses of \$45.3m in its most recent quarter.

In addition, the company's chairman resigned recently and it faces a lawsuit from What Amazon.com has a group of physicians over

As a result, Oxford's stock price has taken a tumble, falling from \$87% last July to \$174 in afternoon trading yesterday.

However, some portfolio managers are more optimistic about the company's future prospects, and consider the coming bond offering as a chance to ride a turnround

This week a total of \$2.8bn in corporate junk bonds are market, according to

## Argentina's utilities pressured to review fees

By Ken Warn in Buenos Aires

Argentina's privatised utilities and a handful of other companies are coming under pressure from investors to review the hefty management fees paid to controlling shareholders.

The present value of management contracts can exceed 20 per cent of companies' market capitalisation. according to a report by brokers Robert Fleming Argentina, and renegotiation could have a big positive impact on company valuations.

The fees are a legacy of Argentina's main privatisa- to take them for a ride." tion thrust at the beginning of the decade, when high management fees were offered as a sweetener for

parallels elsewhere in Latin one of two basic telecommu-America.

Most of the contracts, due for renewal around 2000, are based on pre-tax profits rather than market capitalisation, said Gonzalo Pángaro. analyst at Robert Fleming. This encouraged managements to seek growth at any cost, rather than creating value for all shareholders, he

"As we get closer to these contracts' maturity, investors will get the chance to see which companies really want to maximise shareholders' wealth and which want Listed utilities pay the

management fee to a technical operator, which shares it with other controlling share-Telefónica de Argentina,

nications operators created after the break-up of Entel, the state telecoms concern. pays a management fee to lent to 9 per cent of annual earnings, plus the operator's

In the 1997 fiscal year, Telefónica de Argentina paid a management fee totalling a "chilling" \$145.3m, or more than 31 per cent of earnings, the Flemings report said. Telecom Argentina, the

country's other basic telecoms provider, last year handed about 32 per cent of earnings over to technical operators France Telecom and Italy's Stet. Shareholders excluded

from the fee arrangements are increasingly questioning them in meetings with com-

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panies. Robert Fleming not the only companies pay-

tracts expire.

argues that while the con- ing out significant managetracts are unlikely to be ment fees to controlling changed now, the fees shareholder should be lowered substan-Banco de Galicia, the bigtially when current congest Argentine-owned private sector bank, has tradi-

cent of pre-tax profits as a management fee. Property company IRSA.

in which George Soros, the international investor has a large stake, has just discontinued a manaz The privatised utilities are tionally paid its board 12 per system.

## Probe clouds Cendant's | Kimberly-Clark unveils figures for first quarter fresh pruning move

By Richard Tomkins in New York

Cendant, the US franchising and direct marketing company stricken by worries about accounting irregularities, yesterday reported net profits of \$229.5m for the

last year because the discov- tion. ery of potential irregularities means the previously announced figure of \$166m will probably be revised.

the expected revision would First Call research service.

warned that the investigation into the potential irregularities could affect these

But it later issued a clarification, saying the results had been compiled in accorfirst quarter, and said it accounting practices and believed the figure was reflected the elimination of any potential historical No comparative figure was accounting irregularities given for the first quarter of currently under investiga-

Revenues were \$41.4bn and earnings per share were 26 cents, one cent ahead of

\$115m from the company's year through the merger of reported operating profits of HFS, a franchising company \$872m for the whole of 1997. with interests spanning Announcing this year's hotel chains and car rental

first-quarter results, Cendant agencies, and CUC International, a direct marketing company. Last mouth it completed the acquisition of the UK's National Parking

Corporation for \$1.3bn. The potential accounting irregularities were discovdance with appropriate ered in the accounts of the former CUC. But Cendant said yesterday that more than 80 per cent of its firstquarter net income came from Cendant business units not affected by the accounting troubles.

Cendant said it had postponed its annual meeting the consensus estimate of from May 19 to autumn this Last month, Cendant said analysts surveyed by the year pending completion of restated financial statements In early trading the shares

were down \$13 at \$24%.

tomorrow.

lving results.

From the management

side comes a plea for more

time, as it seeks to transform

the company from being a

municipal bond specialist

into a broadly-based asset

management group targeted

at people facing retirement.

'We've taken criticism for

the pace," says Tim Schwert-

feger, chief executive. "But

this is a 100-year-old com-

pany and if you're going to

transform it, you don't do it

Nuveen's history is the

one thing not in dispute.

Formed in the late 1890s, for

funds, which were then sold

on to retail investors.

overnight."

By Tracy Corrigan in New York Kimberly-Clark said yester-

day that it would close a pulp mill in Mobile, Alabama, in September 1999 and sell the associated woodlands operations, as part of its strategy of reducing its reliance on internally produced pulp. The company has previ-

ously announced plans to sell its pulp mills in Terrace Bay, Ontario, and Miranda, has proved more difficult Spain, but plans to continue to operate pulp mills in Everett, Washington and Pictou County, Nova Scotia.

yesterday, the company will have reduced the percentage use in its own products from since 1995, when it acquired Kimberly said.

nearly 70 per cent to about Scott Paper - previously 20 per cent, in line with its under the stewardship of the target.
"We said last year we

would like to reduce reliance

on internally produced pulp

and this helps us to achieve that," the group said. Kimberly-Clark has been trying to transform itself from a cyclical pulp and paper company into a more highly-rated consumer goods company, but the transition

than the company had Last year, the company announced a restructuring including the loss of 7 per Following these disposals cent of the workforce world-

wide and an \$810m pre-tax

notoriously aggressive Al "Chainsaw" Dunlap - its largest acquisition to date. and which has proved difficult to integrate.

Furthermore, the company's earnings have been hit by overcapacity and price wars in the tissues market in Europe.

Kimberly will continue to operate its Mobile tissue mill, which makes bathroom tissue, paper towels and napkins, and plans to invest \$100m in the facility over the next few

The pulp plant, which is hampered by high energy costs, produces pulp from That restructuring was the company's timberlands of virgin fibre it produces for Kimberly-Clark's second for use in the tissue mill,

#### NEWS DIGEST

INSURANCE BROKING

#### **Aon Corporation leaps** \$137m into the black

Aon Corporation, the Chicago-based insurance broking group, yesterday announced first-quarter profits of \$137.7m after tax, up from a \$2.7m loss in the same period of 1997. The delicit in 1997 resulted largely from special charges, while the company paid a substantially larger tax charge in the first quarter of 1998. Before both tax and special items, profits increased 48 per cent to \$237.8m in the latest three months, compared with \$160.2m in the same period of 1997. Earnings per share were 80 cents, exactly in line with the average of a forecasts. Total revenue for the quarter was \$1.56bn, up from

Pat Ryan, Aon's chairman, acknowledged that revenue growth on the insurance broking and consulting side had

derived partly from acquisitions. Operating profits from the insurance underwriting activities were flat, "reflecting start-up costs in the worksite marketing initiative and the continuing run-off of the specialty property and casualty and North American credit underwriting lines,"

Total revenue from the insurance broking and consulting sses rose to \$1.04bn, up from \$880.7m, while profits ahead of special charges and tax increased to \$183.3m against \$108.6m. On the underwriting side, revenues were \$475m, up from \$445.4m, with profits standing at \$64.5m. against \$64.8m. However, Mr Ryan added consolidation of recent acquisitions in the broking area was "on target", and said the group remained "confident" of its position.
Nikki Tait, Chicago

#### NETWORKING

#### Intel forms alliance with Fore

Intel has formed a partnership with Fore Systems, a leading supplier of high-speed networking systems, in the latest move by the chipmaker to expand its networking equipment business. Intel, the world's largest chipmaker, has set its sights on building a multi-billion-dollar networking business to compete with companies such as Claco, Lucent and Bay Networks. Currently, the networking division has annual revenues of under \$1bn.

Intel said such alliances would be part of the expansion plan. Fore is a leader in asynchronous transfer mode (ATM) networking technology, while their has previously focused on fast Ethernet technology. ATM and Ethernet are alternative networking protocols. Together the two companies plan to create technology and combine the benefits of both ATM and Ethernet for use in corporate networks.

ATM is typically used in large-scale networks where it pro-vides a very high-speed "backbone" technology to link, for example, a network at one corporate site and another. It is often used to consolidate voice, video and data networks. Ethernet, which is typically deployed on local networks, is

known for its ease of use and lower costs. Louise Kehoe, San Francisco

#### **AIRLINES**

#### Continental in Brazil link

Continental Airlines and Vasp, the US and Brazilian airlines, yesterday signed a code-sharing agreement covering 35 flights a week between the US and Brazil.

Gordon Bethune, Continental's chief executive, said the agreement was part of Continental's plans to build on previous agreements with Northwest, Virgin Atlantic, KLM, Air France and Alitalia. The alliance was the third biggest in the world and would aim to become bigger than "the other two" - a reference to the Star Alliance formed last year by United Airlines, Lufthansa, Air Canada, SAS, Thai International and Varig, Brazil's biggest airline, and a similar agreement between United, Lufthansa and All Nippon.

"The world is sorting out into global aillances," Mr Bethune said. "Airlines need to offer passengers the same standards in arta." The agreement begins operating on July 1.

Vasp has similar agreements with three other South American sirlines. Jonathan Wheatley, São Paulo

## Hoechst =

PAYMENT OF DIVIDEND

NOTICE IS GIVEN to shareholders that following a resolution passed at the Annual General Meeting of shareholders held on May 5, 1998 a dividend for the year ended 31 December, 1997 of DM 1.50 per share of DM 5 par value will be paid as from May 6, 1998 against delievery of Coupon No. 62 from shares of DM 5 or Coupon No.12 from London Deposit Certificates

Dividend of 20% will be subject to German Capital Yelid Tax of 25% and 5.5% solidarity payment charged on the capital yelid tax. Coupons may be presented as from May 6, 1998 to: SBC Warburg Dillon Read 1 High Timber Street

London EC4V 3SB

from whom appropriate claim forms can be obtained. The dividend will be paid at the rate of exchange ruling on the day Payment in respect of London Deposit Certificates will be made at

the rate of exchange ruling on the day of receipt of dividend on the underlying shares deposited in Germany. United Kingdom Income Tax will be deducted at the rate of 5% unless claims are accompanied by an affidavit.

German Capital Yelld Tax deducted in excess of 15% is recoverable by United Kingdom residents, and the Company's United Kingdom Paying Agent will, upon request, provide holders with the appropriate forms for such recovery.

HOECHST AKTIENGESELLSCHAFT Frankfurt am Main, May 1998

#### NOTICE OF PARTIAL REDEMPTION

**DOMUS MORTGAGE FINANCE NO.1 PLC** 

£100.000.000 Mortgage Backed Floating Rate Notes due 2014

Notice is hereby given that in accordance with Conditions 5(b) and 5 of the Notice, the Issuer hereby gives notice to redeam £500,000 principal amount of Notice, exiscing randomly as detailed below. The distin set tor the manditure redemption is the next coupon payment date being, June 40, 1998, and the Notice will be redeated at their principal amount plus accrued interest. Payment will be reade against surrender of the Notice, together with it appurtantes Coupona metaining after the date set for redemption at the offices of the Paying Agents, remaid on the Notice. On and after a surrend notice will cease to accrue highers.

The amount of any misching bureats and Coupons will be delected from the sent of the legical or the sent of the payment. June 10, 1998, the redeemed Notes will begin to accrue trighted.

The amount of any missing unmatured Coupons will be deducted from the sum due for payment. Any emount of principal so deducted will be peld against sumander of the relative missing Coupons within they years from the date of payment. The redeemed Notes will become word unless presented for payment within ten years of the redemption date.

minal amount that will be outstanding after the Notes Estad below he

Many 6, 1998

**O**CHASE

## GRAND PACIFIC HOLDINGS LTD

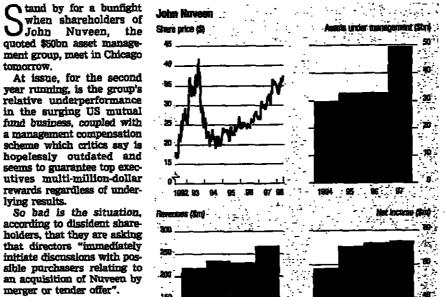
USD 20 MIO Guaranteed FRN DUE 2000

Interest Rate: 6,58125% Interest Period: From 06,05.1998 To 06.11.1998 Interest Payable Per USD 250,000.- Note: USD8,409,38

By Fuil Bank (Luxembourg) S.A.

## Disgruntled Nuveen investors fire a shot across the bows

Complaints about underperformance and management compensation have led some shareholders to demand a sale, writes Nikki Tait



panies, the Minnesota-based growing pre-retirement seginsurance group, for a paltry \$10m. Two decades later, St Paul decided to float off a minority stake; today, about 22 per cent of Nuveen's shares are publicly held and the group is capitalised at

about \$1.2bn. most of its life it functioned A raging bull market for as an investment banking business specialising in equities, however, has not made Nuveen's life in the municipal bonds. Nuveen public arena easy. Municipal bond-based funds fell badly did its first underwriting for a Minnesota-based waterout of favour five years ago works in 1898, and has since handled anything from hosnature of many of Naveen's pital bonds to highway fundbegan to package municipal continued to draw solid mansecurities into a mix of agement fee revenues. In 1993, according to Mr closed-end and open-ended

ment - sensible, given that many buyers of its municipal bond-based funds were older risk-averse investors. But Nuveen then spent two years looking for expertise to handle the additional equity fund business, before

it alighted on Institutional Capital Corporation, another Chicago-hased company. The first family of equity funds was launched in 1996. Then, last year, Nuveen also - although the closed-end acquired the Rittenhouse group, bringing another \$9bn ing. In the 1960s and 1970s, it vehicles meant the company of funds under management, mainly in equity and balance account portfolios.

Mario Cibelli, of New Schwertieger, a decision was York's Robotti & Co, the \$1.25m. These sums are taken to broaden Nuveen's money manager which is linked to performance - but asset management objectives one of the main dissident only to the absolute size of snapped up by St Paul Com- and focus on servicing the shareholders, is not entirely operating profits, rather

holds some water," he says. But Nuveen's belated in earnings per share. launch into the equity management business has left it looking a sorry performer alongside other mutual fund managers. After-tax profits have barely budged from \$70m in 1998 to \$74m last year, while earnings per share have increased 21 per cent over the same period. By contrast, earnings at T Rowe Price, a hig fund management business, have almost tripled over the same period. Moreover, Mr Cibelli

points out that even if comparisons are drawn with Eaton Vance, a Boston-based fund manager which was made do not tackle the "disalso lumbered with a big municipal bond business, Nuveen is still found wanting. Eaton Vance's share price has more than tripled since late 1994, on the back of impressive fund manage ment performance. Nuveen's has doubled over the same period, but still stands below the \$40 level seen in 1993 and has arguably been helped by the sale sugges-

so long to launch equitybased funds. Mr Schwertfeger responds: "It was more important to do it right than to do it quickly."

But what really sticks in the dissidents' gullets is that Nuveen managers have been paid as if the group was a top performer. Last year, Mr. Schwertfeger took home, in cash, \$500,000 in salary and \$2m in bonus; Anthony Dean, chief operating officer, enjoyed a similar \$2.5m remuneration; while John Amboian, chief financial officer, made almost

critical of the strategy. "It than share price, peer group on Thursday. St Paul, with comparisons or even growth

Again, Mr Schwertfeger asks for time, saying remuneration systems do not just apply to top management. and overhauling them needs to be done progressively, "I don't believe you can change it overnight - we are systematically changing it." In its board. That should put presformal response to the dissidents' motion, Nuveen also group's independent direcnotes that about one-fifth of annual incentive awards are shifting from a cash to equity basis.

that "senior management takes the lion's share of the bonus", and changes being connect" between Nuveen's financial performance and the compensation. Mr Cibelli and fellow dissi-

dents, such as Martin Whitman at Third Avenue Value business - I'm just looking Fund, do not expect to win

its majority stake, says it will support Nuveen and describes the dissidents' proposal as "ill-advised".

Nevertheless, the dissidents say that if more than half the independently held shares back their motion, a strong message will have been sent to the St Paul sure on the insurance tors. Even so, whether this will

result in a sale of the Nuveen business is unclear. But Mr Cibelli points out Despite Nuveen's problems, St Paul's low acquisition price in the 1970s means it is looking at a big capital guit on its investment. Mr Cibelli concedes any disposal would need to be a share swap deal. But that, he says, would be fine:

"[Nuveen's] a wonderful

ABERDEEN ATLAS FUND Société d'Investissement à Capital Variable 4. Boulevard Royal. L-2449 Luxembourt R.C.S. Luxembourg B 27,229

The ANNUAL GENERAL MEETING OF SHAREHOLDERS of Aberdeen Arins Fund will be beld at its registered office at 4. Bonlevard Royal L-2449 Luxembourg at 2 p.m. on Thursday 28 May 1998 for the purpose of considering and voting upon the following motion:

Agenda

Acceptance of the Chairman's Review and Auditor's report and approval of the financial statements for the year ended 31 January 1998 Distribution of final dividend Discharge of the Board of Directors and Auditor Re-election of Directors

Re-election of Directors

Re-election of Auditor Re-election of Auditor

Resolutions on the agenda of the Annual General Meeting will require no quorum and will be taken at the majority of the votes expressed by the shareholders present or represented at the Meeting. In order to attend the Meeting of 28 May 1998, the owners of bears' shares will have to deposit their shares five clear days before the meeting it the registered office of the Company.

Voting attengen

Shareholders who cames attend the Meeting in person are invited to send a duly completed and signed proxy form to the registered office of the Company to arrive no later that 25 May 1998. Proxy forms will be sent to registered shareholders with a conv. of this continuous. ed shareholders with a copy of this notice and can also be obtained

The Board of Director



COMPANIES & FINANCE: UK

## German move by Kingfisher

By Peggy Hollinger

Kingfisher, the high street retailer, is paying DM148.5m (\$82m) for a toehold in Germany as part of its strategy to become a global retailer of electrical equipment.

The group is buying 60 per cent of two German electricals chains, which both operate under the brand-name

The companies, which are similar to Kingfisher's UK France, BUT. chain, Comet, together claim about 1.7 per cent of the DM66bn a year German develop a global retail busihousehold electrical equip- ness by first building a ment market, the largest in strong market leadership

Kingfisher also has an option to buy the balance of lysts criticised his plans, Wegert Verwaltungs and saying Kingfisher had over-Promarkt Holding for between £20m and £200m.

British Petroleum yesterday

reported a 22 per cent drop

in first quarter, pre-excep-

tional, year-on-year replace-

ment cost profits to £582m

(\$972m) as low crude prices

continued to take their toll

basis the result was only 10

per cent down, with higher

refining margins and con-

tinuing productivity gains

offsetting somewhat the

slide in crude prices, which

averaged \$14.40 for North

from the fourth quarter aver-

better than most analysis' expectations, and relatively

robust when compared with

other leading integrated oil

companies, which have so

far reported an average 38

per cent fall in year-on-year

The Art State of the Control of the

. . . . . . . .

of oil sector earnings.

**BP dips 22%** 

as low crude

prices take toll

On a quarter-to-quarter cially strong. Total crude

Sea grades, \$7 below the helped boost refining and level a year ago and \$4 down marketing results. Global

BP executives said the Europe - which enjoyed company's performance was more than doubled operating

These are strong results 2114m (£104m). Mr Browne

in a tough climate," said said "there was no sub-

John Browne, BP's chief stance" to recent press

executive. "Despite a drop in "reports suggesting that BP the oil price of over 20 per and Union Carbide of the US

cent from the last quarter, wanted to merge their chem-we have held the fall in prof-ical operations: "We had

its to 10 per cent." He said brief discussions with them BP benefited from \$100m in but they came to nothing." productivity gains in the Mr Browne said BP had no

quarter, with "a lot more plans to cut back on new expected later this year." developments, although

Mr Browne said BP was some projects in Asia may

battling with Exxon of the be slowed. Capital expendi-US for the highest return on ture in the quarter was

average capital employed, £1.1bn. Net debt was \$7.2bn,

the main measure of the effi- with gearing at 24 per cent.

ciency of integrated oil com- Although earnings per share

panies; BP's ratio for the fell 10.1p from 13.3p a year first quarter was 14 per cent, earlier, the quarterly divided well down on last year but was unchanged at 5.75p a still at the "top end" of the share.

MONTHLY AVERAGES OF STOCK INDICES

5554.7

2871.7

5801.79

1227.32

142.05

Hobest close Apr

6105.8 9th

5610.8 30th

2847.07 6th

3872.4 3th

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FTSE indices

FT 30 FISE Gold Mines

FTSE 100

FT 30

FT Govt Securities FT Fixed Interest

FT/S&P-A World Index

to 10 years. Sir Geoffrey Mulcaby. Kingfisher's chief executive, said the acquisition was a "major step forward in our development of a pan-European electricals operation".

The group took its first steps abroad when it bought Darty, the market leader in France, for £560m in 1993. It also holds a 26 per cent stake in the number four player in

Sir Geoffrey has repeatedly said that he hopes to position in Europe. Until recently, many ana-

paid for Darty, However, in the most recent results,

industry scale, according to

Exploration and produc-

tion, the main source of BP's

profitability in recent years,

was hardest hit by weak oil prices. E&P operating profits

were £524m, down 42 per

cent from a year earlier,

when oil prices were espe-

production rose seven per

cent to 1.34m barrels a day,

although natural gas output

was 13 per cent down

because of the warmer than

But the low crude price

operating profits were up 32 per cent to £233m, with

profits - especially buoyant

Rodney Chase, deputy chief executive, said the healthy

refining margins appeared to

Chemicals benefited from

some margin improvements,

with operating profits of

April March February January

2694,8

2586.40 5542.60

2624.19

2521,19

138.99 3466.7 1074.8

5722.4 27th

2774.1 270

2812.3

5732.82

1173,29

140,37 3805.8 3704.8 3466.7 1253.3 1071.0 1074.8 8,982,0.2 7,944,1.1 6,821,7.5 5242.1 4827.6 2515.1

2455.76

2455.05

2341.77

1015.22 252.80

138.04 3316.3

have continued in April.

Mr Browne.

usual winter.

depending on profits, in five Darty proved a strong perworths, B&Q and Superdrug.

Analysis were yesterday optimistic about the group's potential in Germany, although the market is highly price competitive. "It is a sensible deal," said

one. "There should be some benefits from combining the purchasing for Germany with that of Darty." Kingfisher refused to dis-

close the cost savings it expected. Nor would it detail the levels of investment which might be required. However, analysts said this could be significant because information systems in most German retailers were rudi-

One supplier to the leading German personal com-puter chains said simple pro-assets were DM51.4m.

cedures such as product former along with Wool- ordering and purchasing were often done regionally, as opposed to at group level Philippe Frances, chief

executive of Kingfisher Electrical Retailing is expected to take overall control of the -two German companies. However, the brothers Michael and Matthias Wegert who founded the company bearing their name, will stay on to run the business on a day to day basis. The two German compa

nies operate 53 Promarkt stores of on average 24,000 sq ft, and 108 small photographic equipment and pro-cessing outlets. Their combined pre-tax profits last year were DM19.5m on sales of DM1.2bn. Combined net



Trevor Humphries

	Turnou	or (Bog)		Hax t (Exe)	. Bi	(p)	Cornent payment (p)	Date of payment	Dividends • Corresponding dividend	Total for	Total les year
Anglo-Eastern	15.03	(1244)	8.21	(7.1 )	9.6	(9.7)	4#	June 15	3.49	4	3.49
Büston & 6'sea Ø Yr to Dec 31	6.8	(7.56)	0.5821	(0.545 )	4.5L	(3.8)	0.75	July 3	1.5	0,75	1.5
Incepta Yr to Feb 28	88.2	(8.31)	5.61	(16.1)	2.26†	(0.93 )	0.35	July 20	rij	0.35	nii
Siden6 raths to Mar 31	75.7	(83.2 )	3.67	[17. <b>4♥</b> }	. 5	(21.8 )	1.25	July 10	1	-	2.25
Investment Trusts		· 649		estable ps (Cm)	Bės	(a)	Carrent payanent (p)	Date of payment	Corresponding dividend	Total for year	Total les year
Assemican Opport'y 6 Inths to Mar 31	124.4	(- )	0.148	f0.031 }	0.93	(0.2 )		-	-		
Merray Ent 6 mits to Mar 31	169.5	(159.2)	0.34	(0.199 )	1.4	(0.8)	1	July 1	1	-	3.1
Pennine Alm VCT L. 10 miles to Feb 28	130.7	(95·F )	0.077	(-)	1.68	(-)	1.64	June 3	-	1.60	-

## **FKI** bolsters **US** position with \$72m deal

By Andrew Edgecliffe-Johnson

FKI moved to strengthen its position in the US door and window hardware market yesterday, with the \$71.5m (£42.8m) acquisition of the Allen-Stevens Group.

The purchase, which includes the door and window hardware business of ASG's associate company. North American Die Cast Corporation, will give FKI's US subsidiary, Truth Hardware, "a commanding position" in window locking systems, with more than 50 per cent of the market for sash window locks.

ASG is the largest supplier of sash locks to the PVC double hung window market in North America, while Truth is stronger in wooden case-

nent windows. Bob Beeston, FKI's chief executive, said the group could make immediate as a result of its sale of the savings: "We both sell to the automotive division. same end-customers, but ASG use agents on commission, while we use a direct

through Truth's sales force

could bring cost-savings worth 4 per cent of ASG's "This gives us a complete range of window fittings for the domestic and refurbishment markets, and a better share of the patio door hard-

ware business," he added. FKI expects the deal to enhance its earnings in the first full year, and to reach the group's 15 per cent target return on capital in two to three years. In 1997, the operations which FKI is buying made \$7.7m operating profit from sales of \$50.3m.

There will be an adjustment to the final sum payable if net assets differ from \$20.5m. Mr Beeston said the deal would increase gearing. as measured at the interim stage, by 16 per cent.

At the half-year, FKI said gearing would drop from 114 per cent to below 60 per cent

Mr Beeston also said the ASG purchase would give it "considerable opportunity" to accelerate new product Putting ASG's products development across the expanded product range.

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Recommended offer by

Morgan Stanley & Co. Limited

on behalf of

Siebe plc

Eurotherm plc

Morgan Stanley & Co. Limited ("Morgan Stanley") atmounces on behalf of Siebe pic ("Siebe") that, by means of a formal offer document dated and despatched on 5 Msy, 1998 (the "Offer Document") and by means of this advertisement, Morgan Stanley is making a recommended offer (the "Offer") on behalf of Siebe to acquire all the existing issued and fully paid ordinary shares of 10p each in Eurotherm ple ("Eurotherm") and any further such shares which are unconditionally allotted or issued prior to the date on which the Offer closes (or such earlier date, not being earlier than the date on which the Offer becomes litional as to acceptances or, if later, 26 May, 1998, as Siebe may, subject to the City Code, determine) ("Eurotherm shares"), Words and expressions defined in the Offer Document shall have the same meanings in this advertisemen

A person who accepts the Offer (but does not elect for the Mix and Match Election described below) will and 140p in cash. On the bases set out in the Offer Document, the Offer values each Eurotherm share at approximately 457p and the entire issued and to be issued ordinary share capital of Eurotherm at approximately £436 million.

Emotherm shareholders who validly accept the Offer may elect, subject to availability, to vary the proportions in which they receive new Siebe shares and cash in respect of their holdings of Eurotherm res (the "Mix and Match Election"). However, the maximum number of new Siebe shares to be issued under the Offer, and the maximum amount of cash to be paid out under the Offer, will not be varied as a result of the Mix and Match Election and Siebe's ability to satisfy Mix and Match Elections made by Eurotherm shareholders will accordingly depend on other Eurotherm shareholders making offsetting elections. To the extent that elections cannot be satisfied in full, they will be scaled down on a pro rata basis. To the extent that elections can be satisfied, Eurotherm shareholders will receive new Siebe shares instead of cash, and vice versa, at the rate of 1,378p per Siebe share.

As a result, Eurotherm shareholders who make a Mix and Match Election will not necessarily know the exact number of Siebe shares or the amount of cash which they will receive until settlement of the consideration under the Offer, although an announcement will be made when the Offer becomes or is declared wholly unconditional, of the approximate extent to which the Mix and Match Election will be The Mix and Match Election will remain open until 3.00 p.m. on the first closing date 26 May, 1998. If the

Offer is not then unconditional as to acceptances. Siebe may extend the Mix and Match Election to a later date. If the Mix and Match Election has been closed, Siebe reserves the right to re-introduce a mix and match election, subject to the rules of the City Code. Eurotherm shareholders (other than certain overseas shareholders) who validly accept the Offer will be

entitled to elect to receive Loan Notes instead of all or part of the cash consideration to which they would otherwise be entitled, on the basis of £1 nominal of Loan Notes for each £1 of cash (the "Loan Note The Loan Notes will be issued by Siebe credited as fully paid in amounts and integral multiples of £1

ninal value. Any fractional entitlements will be disregarded and not paid. No Loan Notes will be issued unless valid elections for the Loan Note Alternative will result in the issue

of at least £5 million nominal value of Loan Notes, or such smaller amount as Siebe may decide. If the Loan Notes are not issued in these circumstances, Eurotherm shareholders who elect for the Loan Note Alternative will receive cash and new Siebe shares in accordance with the terms of the Offer and the Mix and Match Election. The Loan Note Alternative will not be available to US persons or persons resident in Canada, Australia or Japan. It is not intended to make application to any stock exchange for the Loan Notes to be listed.

The rate of interest per annum payable on the Loan Notes will be the rate calculated by Siebe to be one baff of one per cent. below LIBOR.

The new Siebe shares issued pursuant to the Offer will be issued credited as fully paid and will rank pari passu in all respects with the existing Siebe shares including the right to receive and retain in full all dividends and other distributions declared, made or paid after 27 April, 1998, including the final dividend in respect of the financial year ended 4 April, 1998 which is expected to be paid in October, 1998. Application will be made to the London Stock Exchange for the new Siebe shares issued pursuant to the Offer to be admitted to the Official List.

The full terms and conditions of the Offer, the Mix and Mutch Election and the Loan Note Abergative referred to above (including details of how the Offer may be accepted) are set out in the Offer Docum and the Form of Acceptance. Eurotherm shareholders who accept the Offer may rely only on the Offer Document and the Form of Acceptance for all the terms and conditions of the Offer (including the Mix and Match Election and the Loan Note Alternative). The Offer is conditional, inter alia, on the receipt of satisfactory clearance from the relevant competition unaborities.

The Offer is, by means of this advertisement, extended to all persons to whom the Offer Document may hed who hold, or who are entitled to have allotted or issued to them, Eurotherm shares. Such persons are informed that copies of the Offer Document and Forms of Acceptance are available for collection from Lloyds Bank Registrars, The Causeway, Worthing, West Sussex, BN99 6DA.

The Offer, the Mix and Match Election and the Loan Note Alternative will initially be open for acceptance until 3.00 pm on 26 May, 1998.

The Offer (including the Loan Note Alternative) is not being made, directly or indirectly, in or into, or by use of the mails, or by any means or instrumentality (including, without fimitation, facsimile transmission, telex and telephone) of interstate or foreign commerce of, or of any facility of a national securities exchange of, the United States, Canada, Australia or Japan, Persons wishing to accept the Offer should not use such mails or any such means, instrumentality or facility for any purpose directly or indirectly related to the Offer since doing so may render invalid any purported acceptance of the Offer.

This advertisement is not being published or otherwise distributed or sent in, into or from the United States, Canada, Australia or Japan and persons reading this advertisement (including custodians, trustees and nominees) must not distribute or send this advertisement, the Offer Document, Form of Acceptance or any related documents in, into or from the United States, Canada, Australia or Japan, or use the United States, Canadian, Australian or Japanese mails or any such means or instrumentality for any purpose directly or indirectly in connection with the Offer and so doing will render invalid any related purported acceptance of the Offer.

Neither the new Siebe shares to be issued pursuant to the Offer nor the Loan Notes have been, nor will they be, registered under the United States Securities Act of 1933 as amended (the "Securities Act") nor under any relevant securities laws of Canada, Australia or Japan or any state of the United States and may not (except, in the case of the United States, pursuant to an exemption from the Securities Act) be offered, sold or delivered, directly or indirectly, in or into the United States, Canada, Australia and Japan.

In this advertisement "United States" means the United States of America (including the states thereof and the District of Columbia), its territories, its possessions and other areas subject to its jurisdiction. Morgan Stanley, which is regulated by The Securities and Futures Authority Limited, is acting for Siebe and for no one else in connection with the Offer and will not be responsible to anyone other than Siebe for providing the protections afforded to the respective customers of Morgan Stanley or for providing advice

The Directors of Siebe accept responsibility for the information contained in this advertisement. To the best of their knowledge and belief (having taken all reasonable care to ensure that such is the case), the information contained in this advertisement is in accordance with the facts and does not omit anything likely to affect the import of such information.

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The Body Shop inversational pre West States BN17 7LR United Kingdom Fext: +44 1903 844428

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Avis de deuxièmes convocations

Les assemblées des propriétaires d'obligations des emprunts ci-dessous désignés émis par la Compagnie Générale des Eaux, S.A. au capital de 13 459 350 300 FRF, 780 129 961 R.C.S. Paris, convoquées pour le mardi 5 mai 1998, n'ayant pu délibérer fante de quorum, les propriétaires des obligations sous convoqués à nouveau en assemblée générale au siège social le mardi 12 mai 1998 à :

- 16 heures pour l'emprunt de FRF 1000 000 000 84 échéance 1999 XS0053631528

- 17 heures 30 pour l'emprunt de FRF 3 000 000 000 61/46 échéance 2004 XS0049107450 ethéance 2005 XS0058226027

à l'effet de délibérer sur l'ordre du jour suivant :

rapport du Conseil d'Administration sur l'apport partiel d'actifs - soumis au régime des scissions - de la branche d'activité de gestion de valeurs mobilières et immobilières dans les domaines de la presse, l'édition et de la communication, consenti par la Compagnic Générale des Eaux au bénéfice de la société Havas Média Communication (HMC) devenue sa filiale, après absorption de la société Havas.

approbation de cette opération d'apport, pouvoirs pour les formalités et dépôt des documents relatifs à l'assemblée

Pour ette admis ou pour se faire représenter une assemblées, les propriétaires d'obligations nominatives devront inscrits en compte sur les registres de la société croq jours au moins avant la date fixée pour les assemblées; propriétaires d'obligations au porteur devront déposer, dans les memes délais, les certificats des intermédia habilités constatant l'indisponibilité des obligations jusqu'à la date des assemblées auprès des bacques établissements de crédit ayant participé à l'émission de ces obligations.

Des cartes permettant d'assister aux assemblées ou des pouvoirs en vue de s'y faire repré propriétaires d'obligations nominatives qui en feront la demande. Le texte des résolutions proposées et le rapport qui sera présente à l'assemblée sont à la disposition des

L'ACCENT PAYEUR PRINCIPAL SOCIETE GENERALE BANK & TRUST S.A. 11-13, avenue Endle Renter L-2429 LUXEMBOURG

#### **CONTRACTS & TENDERS**

ROMA DUEMILA SPA IN THE NAME OF AND ON BEHALF OF FERROVIE DELLO STATO



Roma Duemila S.p.A., in the name of and on behalf of F.S. S.p.A., hereby announces a p Roma Duemila S.p.A., in the name of and on behalf of F.S. S.p.A., hereby announces a public competition for the search and selection of individual persons and/or Associations between persons, interested in the acquisition of ownership of the area situated in ROME: - STAZIONE S. PIETRO, for a total of approx. 7.825 sq.m., 400 sq.m. of which public right of way, as identified in the NCT map 430 parcet numbers 121 part, 387, 118, 135 and 385. On the said area the service equipment must be realised, as foreseen in the "Plan of Order" according to the "Programme Agreement" of 1.08, 97 and as resulting from the "Services Conference" as per art. 4 of Italian Law 396/90.

The total realisable volume of the area, object of the present call for bids, is equal to 50,676 c.m., corresponding to a gross surface area of 14,200 sq.m. realisable for new interventions, divided as follows:

915 sq.m. for artisan activities to be relocated.

Furthermore, the realisation of 8,056 sq.m. of pertinent underground parking spaces and a maximum of 15,000

sq.m. underground parking, substitute for roadside parking, is toreseen.

The actual execution of the operations is subject to advanced approval of the final project, in the process of being finalised, by the competent Bodies and, in particular, by the above mentioned "Services Conference" ex art. 4 of Law 396/90.

10 to admitted to this quantication phase, the meressan period, enterpreneurial, practical and management capabilities and must have experience predominantly in the realisation and management of reception and commercial activities as well as experience in the realisation and management of recreative, cultural and partially structures such to guarantee the effective accomplishment of the operations for the 2000 Jubilee. Interested parties should present their application, in italian and with all the documentation requested in the complete call for bids, no later than 15.05.98 at the following address: ROMA DUEDIKA SPA - VIA DEI DUE NIACELLI N.9 - 00187 ROMA - ITALY. The complete

ROMA DURMU A SPA

## Cendant starts talks on car parks venture

Corporation, the car park before. operator acquired by Cendant of the US for £801m (\$1.33bn) last month, has started discussions with UK property companies about setting up a joint venture to develop its 500 car park sites in the UK.

The property companies thought to include MEPC, Hammerson, Land Securities and Chelsfield - bave been asked for proposals that would involve a comprehensive development of NPC's portfolio over the next 20

NPC, which was built up after the war by its founders, Sir Donald Gosling and Ronald Hobson, is unusual in owning more than 70 per cent of its sites either free-

Parking £25.7m increase on the year its. Since the NPC acquisi-

city centres around the UK. and NPC believes the trend away from out-of-town developments makes them increasingly desirable to The joint venture would be

would provide the sites while its partner would contribute sufficient cash to The joint venture could

Cendant, which said at the time of the NPC acquisition that it wished to dispose of interests.

hold or on long leases. The high price it paid for NPC, handling capacity.

portfolio was valued at which equated to 17 times tion. Cendant's share price Most of the sites are in has fallen heavily, following the discovery of accounting irregularities at a US subsid-

Cendant is also considering the future of Green Flag, businesses seeking to build NPC's breakdown recovery retail or office space. NPC's breakdown recovery business. following its agreement last week to buy the structured so that NPC RAC motoring services busi-

ness for £450m. Green Flag's 3.5m members could be transferred to maintain and develop the the RAC, with the company moving into another area of business such as providing a yield substantial profits for home emergency service. However, Green Flag's 1,000 employees, mainly employed at its Leeds call centre, are the company's property unlikely to be affected by the change, as Cendant is seek-This would help offset the ing to expand its UK call

COMMENT

#### Christies Intl

Going, going, but not quite Christies International gone. The sale of Joseph Lewis's 29 per cent stake in the venerable auction auction house to one of France's most aggressive businessmen. Francois Pinault. should send a frisson down the spine of Christies' top management. This is the man, after all, who dared to launch a hostile bid for the French conglomerate. Worms Compagnie. That is not the style of a passive investor.

of trophy assets, and even

bids at Christie's for the odd

Admittedly, he has his share May

Share price relative to the

FTSE All-Sture Index

But his interest in financial services, via his holding company Artemis, could lead to a shake-up at Christies. Auctioneers are increasingly taking art on to their own books. These are no longer straightforward commissionbased businesses but ones that are starting to look more like finance houses. A stake in an art-house with financial pretensions may just about console Mr Pinault for the loss of

#### Computacenter

One of the most street-wise of IT companies is coming to market. Computacenter sells hardware kit to large corporates and then helps them use it. The record in both earnings and turnover is good, while tight control over working capital is generating strong cash flow. As a solid play on the high-tech sector, Computacenter looks a good bet. Demand for IT hardware and services should keep sales growing at a fair clip. Forecasts of a compound annual rate of 20 to 25 per cent over the medium term look achievable.

But Computacenter investors need to know what they are buying. This is no Logica, Sema or Cap Gemini, whose high-powered consultants dream up the next killer application for their clients. Computacenter's services are installation, integration and maintenance. These are less risky to develop, but not as insensitive to price pressure as key bits of software. Also, tougher competition lies ahead from manufacturers which may either bypass Computacenter to sell direct to companies or muscle in on providing straightforward services. Sitting on a third of the market, Computacenter is at least less vulnerable than others. At the mid-range price of 610p, the shares will trade on 29 times 1998 forecast earnings, which looks fair. Scarcity may well push the price up, but a p/e much above 30 would look demanding.

## New US bidder for Vero

By David Blackwell

A second US group yesterday entered the bidding for buy Vero, the UKbased supplier to the electronics and telecommunications industries that has been left vulnerable by the strength of sterling.

Pentair, a Minnesota-based diversified industrial group, is offering 170p cash per share, valuing its target at £102.2m (£171m).

This compares with the 157p a share offered just under a fortnight ago by than twice the sales of APW, sales of \$1.8bn last year.

Philip Hulme and Peter

Ogden who founded Compu-

tacenter 17 years ago, plan

to give almost £50m (\$84m)

to charity when the informa-

tion technology distribution

and computer services group

Mr Hulme, Computacen-

. . .

::

·....

5.00

floats later this month

By Paul Taylor

The shares - 119p ahead of APW's offer on April 23 closed up 71/2p at 180p.

Vero, which in March said the strong pound had proceed without it," said knocked profits back 27 per cent last year, was recommending APW's offer. But Pentair indicated last month that it was considering launching a rival bid for the UK group, which makes and distributes racks and enclosures used to house cables

and electronic equipment.

Ogden is expected to place

ceeds into the same non-ben-

eficial trust. Beneficiaries of

the trust would be

announced later

two thirds of his £28.1m pro- ation of about £1.04bn.

The two entrepreneurs ter staff who will become

from the board - but not so strong that we would not Richard Ingman, chief financial officer. Brian Gay, Vero's managing director, with a 3.5 per cent stake, said the board would consider the higher

"We have a strong prefer-

ence for a recommendation

offer. APW said it was looking at all its options.

Pentair, listed on the New York Stock Exchange, made Pentair, which has more profits of \$91.6m (£55m) on

will have a market capitalis-

Computacenter set for charitable flotation day that he planned to put at Harvard Business School the flotation. Together with of 44.3m shares to institu-

the £30.5m proceeds of his 5 in the early 1970s, will still a further 750 employees, tional shareholders. per cent share sale into a hold shares worth about they own about 18 per cent Group turnover last year was £1.13bn after doubling charitable trust and Mr £256m in the group which of the capital through share over the past two years. Preoptions. According to the path- tax profits totalled £47.1m Mike Norris, chief execu- finder issued yesterday, last year.

The offer price will be tive, and Tony Conophy, shares in the group will be finance director, will be priced at between \$50p and announced on May 21 and among the 30 Computacen- 670p. dealings on the London ter staff who will become The company is coming to Stock Exchange are expected who first met while students millionaires as a result of market through an offering to begin on May 29.

SOCIETA' DI TRASPORTI E SERVIZI PER AZIONI EXTRACT OF CALL FOR BIDS

5,500 sq.m. for reception activities; 3,285 sq.m. for cultural activities; 2,000 sq.m. for general services:

#### ARRANGER OF DEBT IN EMERGING MARKETS



November 1997

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Pre-Export Finance

March 1998

SOLE ARRANGER

Bank MENATEP

USS 80,000,000 Transferable Term Loan Facety

December 1997

SOLE ARRANGER

August 1997

SOLE ARRANGER US\$ 31,000,000 Gold denominated Project Loan for the

September 1997

US\$ 75,000,000 Limited Recourse Cotton Pre-Export Finance Facility for

November 1997

SOLE ARRANGER

August 1997

SOLE ARRANGER

SOLO INDUSTRIES LTD USS 20,000,000 repayment Facility o Tin Exports from inc

Sappi Limited South Africa NLG 786,000,000 Guaranțee Facility

April 1998

JOINT ARRANGER

**BANKT**KSPRES

December 1997

CO-ARRANGER

US\$ 21,000,000 Short Terrn syndicated Trade Finance Facility
Standard Bank
Lendon Life Ted

March 1998 JOINT APPRANCES

SeverStal Zimbabwe Tobacco USS 90,000,000 US\$ 30,000,000 Pre & Post Shipme Russian Steel ATTEMPED MET

USS 27,000,000 Syndicated Trade Finance Facility SOLE ARRANGER SQL Satellite Goldfields Limited US\$ 27,500,000 Gold Denominated Loan to develop Waste Gold Iroject, Grans. Sponsortic by Glencar Mining pic

April 1998

SYNDICATIONS

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**FORFAITING** Scott Branch (44 171) 815 3167 STRUCTURED TRADE & COMMODITY FINANCE Tim Whalley (44 171) 815 4155

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In accordance with the provisions of the Notes, notice s hereby given that the Rate of interest for the three month period ending 29th July 1998 has been fixed at 6.825% per annum. The interest accruing for such three month period will be HKS 17.015.80 per HK\$ 1,000,000.

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#### **CONTRACTS & TENDERS**

Estonian Privatization Agency associated a tender with preliminary percentations for selling THE STATE-OWNED SHARES OF A LIMITED COMPANY AS LÄÄNEMAA ELEKTRIVÕRK (power grid system in West Estonia)
(430,000 shares with a nominal value of 100 Estonian kroons each)

/1 DEM = 8 EEK/ Location: Tööstuse 2. Haansaki, Estonia. LOGARDY TOWNSE 2, THEOPENI, ESSORIA.

Primary areas of activity: purchasing, distributing and selling of electric energy.

The balance sheet value of the asset (as of December 31, 1997): 139,9 million kroons, including fixed assets 131,1 million kroons. Net turnover of the year 1997: 47,8 million kroons, net profit 1.5 million kroons.

Average number of employees in 1997 was 89.

TENDER CONDITIONS . General Conditions Estonism Privatization Agency (EPA) is authorized to sell the state-owned shares of AS Latinemaa Etektrivõrk in one-

persons interested in participating in the tender may obtain a brief overview of the AS Lätneman Elektrivčia. On written authorization from EPA, they can visit the AS Lätneman Elektrivčia premises where the management of the company is obliged to provide additional information. EPA is not responsible for the accuracy and completeness of the information. The bid must be presented in writing either in Estonian or English. Privatization will be carried out in accordance with the legal acts of the Republic of Estonia.

Basic Tender Requirem The bid must be submitted to cover all 430,000 shares of AS Listnessas Elektrivirk owned by the state.

In addition the bid must include:

technical and fuzzocial plan (applied technology, investments including the amount of investment in share capital and the sources of financing); turn amount of the investment will be 25 million knoons.

Bosed on the submitted bids, EPA will enter into preliminary negotiations with the bidders, in the course of which EPA will inform the bidders about the requirements which will be a part of the final bid. EPA will determine and inform the bidders of the final deadline for submitting the bids. It is possible to amend the final bid in the course of negotiations. The Board of EPA reserves the right to accept a bid other than the one with the highest purchase price.

Väino Samet General Director of EPA

Complete advertisement at Internet address http://www.eca.ec. For the required documentation and additional information correct EPA, 6 Ravata Str., Tallian EE0001, Estonia. Office hours of EPA are Monday through Friday from 9:00 a.m. until 4:00 p.m. local time, telephone 37-26-305 620.

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ANNUAL GENERAL MEETING OF SHAREHOLDERS The Annual General Meeting of Stateholders of Artal Group S.A. will be held at the Banque de Luxembourg. 14, Boulevard Royal. L-2449 Luxembourg. on saturday, May 16, 1993 at 15:00 law, for the purpose of discussing and voting input the following matters:

Report of the board of directors
Report of the stantory suditor
Approval of the annual accounts as at December 31, 1997
Allocation of results as at December 31, 1997
Discharge to the directors and to the stantory auchter
Commence to wheterion.

SGA SOCIETE GENERALE
ACCEPTANCE N.V.
FRF 1 000 000 600 REVERSE
FLOATING RATE NOTES
DUE FEBRUARY 2, 2004
ISIN CODE: XS0047009963

For the period May 04, 1998 o August 03, 1998 the new rate has been fixed as 8.23593375 % P.A.

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FRF 20 818.61 for the denom
of FRF 1 000 000

Holders of bearer share certificates are requested to deposit their shares no later than May 11, 1998, it Banque de Luxembourg S.A., Luxembourg or st any other recognized bank.

Alliance & Leicester Building Society £250,000,000 Floating Raze Notes due 1999 For the laterest Period 35th April 1995 to 30th July 1998, the Note will carry a Rate of Interest of 7.5460 will carry a Size of numeror or com-per cont. per annum with interest amounts of £188.14 per £10,000 principal parable on 30th July, 1998. Land on the language Soci Perhage

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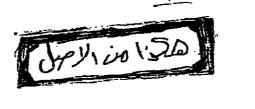
In accordance with the provisions of the Notes, notice is hereby given that the Rate of biteress for the six month period canding 6th November, 1998 has been fixed at 5.531.25% per annum. The interess accessing for such six month period will be U.S. \$28.27 per U.S. \$10,000 Bearer Note, and U.S. \$282.71 per U.S. \$10,000 Bearer Note on 6th November, 1998 against pre-estation of Compos No. 12. Italian Roots of Sectional.

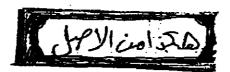
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#### SBC Warburg Dillon Read

## Global dominance in convertibles



\$ 125,000,000

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#### DM 2,000,000,000

Exchangeable Bonds Deutsche Bank

Joint bookrunner

Yen 12,000,000,000

Convertible Notes

Sole bookrunner

**flotation** 



\$ 2,455,000,000

**Exchangeable Notes** 

into

Sole bookrunner



SFr 1,000,000,000

Bonds with RODEO warrants

Sole bookrunner



The world's largest international equity-linked issue



SFr 200,000,000

Exchangeable Bonds **UBS** 

Sole bookrunner

## The market leader

#### in the U.S.

All U	I.S. equity-related issues	s 1/1/98 to date						
	Managing bank or group	Total US\$(m)	Share (%)					
1	SBC Warburg Dillon Read	2,705.00	19.30					
2	Merrill Lynch	2,473.98	17.65					
:3	Morgan Stanley DW	2,152.57	15.36					
4	CSFB	1,480.00	. 10.56					
5	Salomon SB	1,100.00	7.85					
6	Goldman Sachs	1,091.37	7.79					
7	Lehman Bros	904.61	6.45					
8	Bankers Trust	750.00	5.35					
9	DLJ	425.00	3.03					
10	PaineWebber	288.00	2.05					

#### and internationally

VI iı	nternational convertibles	1/1/98 to da	te
	Managing bank or group	Total US\$(m)	Share (%)
1	SBC Warburg Dillon Read	5,445.73	37.42
2	Morgan Stanley DW	2,651.21	18.22
3	Merrill Lynch	1,388.97	9.54
4	Goldman Sachs	861.06	5.92
5	CSFB	<i>7</i> 18.34	4.94
6	HSBC Investment	<i>7</i> 1 <i>7.7</i> 0	4.93
7	Dresdner-KB	542 <i>7</i> 4	3 <i>.</i> 73
8	Paribas	405.39	2.79
9	Salomon SB	3 <b>72.7</b> 5	2.56
10	UBS	327.10	2.25

Since January 1, 1998, SBC Warburg Dillon Read has lead managed 24 equity-linked issues worldwide, raising more than \$8 billion.

## Do-it-yourself secrets with a bearing on sales

Peter Marsh looks at a family-owned German engineering group that has gone against the trend towards outsourcing

Outsourcing is in his brother Wilhelm, who vogue in many areas died in 1981, had a reputation for manufacturing, tion for secrecy. They piobut companies that have expanded employment by "insourcing" are rare. One of the few that has is

INA, a German engineering company that represents one of the best kept secrets of European industry. Formed in 1946 as a maker

of buckles, ladders and hand carts, the company has become one of the world's biggest makers of industrial rolling bearings. Since 1990, it has increased

employment in its 14 German factories by 2.000 to 12.000, partly by a policy of taking on work it believes is too exacting and specialised to be done by subcontractors. Similar policies have been followed by its 18 other factories worldwide, which employ 8,000.

INA, which had sales last year of DM4bn (\$2.1bn), three-quarters from bearings and the rest from bearingrelated car engine parts, has only two shareholders. They are the widow and son of Georg Schaeffler, one of the company and who died in 1996 while still in space shuttle. day-to-day charge.

neered a system for linking technological development

inside the company with the needs of customers. Lorenz Raith, who took over as chief executive on Georg's death, believes it is at least the equal of those practised by many better-

Hermann Simon, a German management consultant, says INA is a good example of companies "whose secrets lie not so much in their products as in

man industry. "We have been increasing the depth of our manufactur-

know-how by moving into specialised engine parts for cars, such as clutch and

About half INA's sales are

to the automotive industry,

where big customers include Toyota, Volkswagen and

Mercedes-Benz. Some 30 per

cent go to general engineer

ing industries, with the rest

to sectors such as medical,

defence and cleaning equip-

Mr Raith, who has been at

INA for 20 years, says tech-

nology and production

knowledge is one facet of the

company's success. Another

is flexibility - a trait not

always associated with Ger-

valve systems.

INA is a good example of companies 'whose secrets lie not so much in their products as in what

happens inside their plants'

plants". products - mainly rotating bearing systems that facilitate movement in a range of two brothers who started machinery from papermaking equipment to the

It has also exploited its Both Georg Schaeffler and production and marketing

what happens inside their ing, as opposed to relying on outside subcontractors to do The company makes 50,000 the work. This has happened as we move to more complex parts, such as tappet replacements for engine valve systems which might give better fuel economy, fewer environmental problems, or hetter safety." he says.

what we do is increasing...as we move into new areas, which require, for instance, advanced knowledge of coatings technologies and software. This is why it makes sense to continue building our manufac-

turing capabilities, even in

Computing skills are vital. "We have to be aware that we are competing all the time not just against other mechanical products but electronic products [for nstance, for engine controls] that perform similar functions." savs Mr Raith.

INA splits its worldwide workforce into about 100 product groups covering specustomers - for example, special bearing systems for the car industry or products "The skills component of machines. Each group com- sense, the company has 500 factor."

prises technical, sales and marketing people.

Mr Raith says: "You have to ask yourself all the time what is the best organisation. You may need every so often to scrap one group and start another one. Our chosen method with new people is to recruit new engineers high-cost places like just after school and train them in our way of doing things.

Of the 20,000 employees, more than 70 per cent are skilled. INA has 250 full-time trainers, mainly working at its technical centre - what the company calls its INA University at its headquarters in Herzogenaurach near Nuremburg. Every year it takes on 250 apprentices, exclusively for the German

Underlining how INA organises itself on a "do-it-vourself" basis whenfor printing or woodworking ever it appears to make

people working on special manufacturing systems and tooling for internal use. "We find it cheaper to do these jobs ourselves and also make sure that the machines have the flexibility that we need," says Mr Raith.

INA does not publish profits but says its returns are high enough to pay for capital investments that on average account for 10 per cent of its turnover - compared with the average figure for Europe's engineering industry of about 5 per

Mr Raith says INA's two shareholders are determined that the company stays private. "The two [Schaeffler) brothers were unique and highly motivated characters. They set the pattern for the company today. If we were merged into another big company, it would destroy much of our success



LOUISE KEHOE

## Consumer satisfaction is the key

Microsoft should not be prosecuted for providing standards in PC software

Politics and industry rivairies surrounding the Microsoft antitrust investigation are making lots of headlines, but the opinions of individual personal computer users are all too often left out of the

Where do the "silent millions" of Microsoft software users stand? Most may know little of the company's looming battle with the US government Yet consumers are

supposed to be at the centre of any antitrust case. Traditionally, they are the victims of money-grabbing monopolists who abuse market dominance by raising prices.

Why is it then that there

are few complaints from individual PC users about the price of Microsoft's software products? The company is sometimes criticised by corporate customers for rising service costs but its retail prices do not seem to be out of line with those of other vendors. about the fast changes in PC software and technology: "I've only just installed Windows 95," a colleague said last week. "Am I going

Windows 98]?" It is not so much prices that upset PC users as the prospect of having to adjust to new ways of doing everyday things such as opening an application program or ... searching for a file. Technology enthusiasts

to have to switch again (to

are eager to get their hands on Windows 98. Yet for the majority of PC users, new oftware means new h PC manufacturers take the

opposite view. With every "new and improved" software release, they have the opportunity to persuade buyers that it may be a good time to upgrade to a new PC

Consumer resentment at the accelerating cycle of software and hardware upgrades underlies much of the ill feeling towards Microsoft. There is a sense that we are all at the mercy of this technology juggernaut.

The cost of a specific Microsoft program may not be unreasonable, but the cost of keeping up with PC technology is substantial and Microsoft is a big part of

the problem. The irony is that this has absolutely nothing to do with any alleged antitrust

violations by the company. Microsoft's opponents argue that its stranglehold on the market for PC operating systems software

slows innovation as other software developers are dissuaded from trying to compete. The goal of US antitrust egulators is to ensure open

competition, which they believe will boost innovation advance. But one has to wonder whether government lawyers have taken the time to ask PC users if this is what they want.

Then there is consumer choice. US antitrust regulators say they are determined to ensure that consumers will be able to choose between Microsoft products and those offered by its competitors.

Yet there are alternatives to Microsoft software for those who want them. Unix and its variants, as well as the Apple Macintosh operating system, compete with Windows. Word Perfect competes with Microsoft Word. Netscape's

Communicator is a winning alternative to Internet Explorer. Consumers tend to take the easy path and in PC software, Microsoft provides

If Microsoft has violated antitrust laws by coercing its industry partners into signing exclusionary contracts, it should be hauled into court. If the company has provided what

consumers seem to want -

standards in PC software -

it should not be prosecuted.

Miller West Messin

4.75.V.

The state of the s

Personal computers have created a new Murphy's Law: the information you need – a file, an e-mail address or a web site bookmark - is always stored on another inaccessible computer.

The problem arises because many of us have become users of multiple computers. There is one on the office desk, another at home and also a notebook computer for use on business trips.

Inevitably, the web site you bookmarked at home last night will prove unfindable the next morning at work. The documents you need are always somewhere

Die-hards who carry a laptop computer with them everywhere can circumvent this problem. But they do so at the risk of losing everything altogether if the portable computer is damaged or lost.

Visto, a Silicon Valley start-up, has a solution. For less than \$10 a month the company will create your electronic briefcase - a secure storage place on the internet for your personal

Visto (www.visto.com) provides an "assistant" software that will automatically put into your electronic briefcase the data and documents you select. If you pick up e-mail messages or record appointments while

travelling, they are automatically available from your office and home computers. If you work on a document at home, the updated version will be stored on your office

computer. Since January, Visto has attracted customers from more than 100 countries: telecommuters who work at home and in an office: travellers who need to access computer files on the road; and small businesses that use the service to create a virtual private network.

Visto is an answer to the prayers of the forgetful and those who mean to update contacts/e-mail and other files but somehow never do. I'm heartened to learn that there are a lot of us.

Navigating the web is always a bit hit and miss. Search engines throw up many irrelevant answers and directories never seem to have quite the thing you are looking for.

Centraal, a startup company attracting attention by its realnames software

(www.realnames.com), is out to make the task easier. The system enables users to type in the name of a company, a trademark product name or similar obrase and go directly to the right web page. Owners of these names egister them with Centraal

for a small fee. Today Centraal will announce a partnership with AltaVista, the search service owned by Digital Equipment. The deal will make the realnames system available to users of AltaVista, promising more

successful web searches. Ideally, Centraal's software should be built directly into a browser so that it is automatically activated when needed. But first. Centraal will have to navigate its own way through the browser wars. Perhaps it needs to search for politics.com.

Share your views in the Eagle Eye discussion group on the FT web site (www.FT.com) or contact Louise Kehoe by e-mail on louise@FT.com



Information Technology The FT's review of information Technology appears on the first . Wednesday of each month



JOHN W. HUNT
ADVISES

## The perils of foreign postings for two

Dual-career families have complicated the introduced training for both business of filling once-prized postings. Below, how some companies are coping

Ucar Projessor Hun I have just asked my marketing manager to transfer to Moscow for two wears. She has refused and if I insist she will resign. Her partner is a lawyer with a City firm and although they have an office in Moscow he

will not move. Any ideas? Prof Hunt replies: One of the great challenges for business executives this century has been the opportunity to work abroad Thousands of young, single people have jumped at the chance of experiencing a sanitised version of the thrills of 19th century

Life became more complicated if these expats married or established permanent relationships. However, as the vast majority were men, the sumption was made that the wife or nartner would be delighted to share in the experience - and this experience would be reward enough for the "little

woman". In return, she would be expected to manage his domestic life, enter into the social life of the community and contribute to activities that showed her husband's employers in the very best light. She was not paid for this. The fact that she had to restore the social equilibrium within the family and give up friends and interests of her own and

pport her husband in al his commercial activities was rarely recognised. At best, a paltry allowance was paid for clothing or domestic help. She became an unpaid employee of the

corporation. There were benefits: a lifestyle that could not be afforded at home; a chance to play the colonial governor's lady; servants, nannies, drivers; trips home twice a year, school fees; and holidays in exotic places. It was seductive and difficult to reject.

For every successful relocation there were as many failures, and research showed the wife was the main cause. This was not surprising. The husband would arrive in a foreign city and be absorbed by the company. He had an identity, an office, support staff, authority and status. She had none of these and often did not speak the

It was her responsibility to look after the children, to deal with their problems of settled into schools and to ensure that the transfer abroad went as smoothly as

The second world war changed expectations: people had better ways of handling expatriate appointments. Companies, particularly the oil companies and many of the new US multinationals.

expat executives and their partners.

For the first time the research evidence that the s of the appointme was heavily dependent on the adjustment of the partner was taken

But by the 1980s the number of professionally trained women accompanying their husbands on expatriate nostings was increasing Dual-career families were no longer the exception and women started to rebel. They were not interested in playing explorer – many had explored the world already

backpackers. Globalisation, dual careers and the rate of change have

undoubtedly had an impact on the expat question. But all these influences, the dual-career issue has caused the greatest problem for corporations. More and more companies are trying to avoid sending men or women from dual-career households abroad. There have been other

actors at work, too. Regulations in some countries about the nationality of chief executives and heads of functions have resulted in i more local appointments.



Expats themselves are less willing to change location. Some employees, seeing profound change in the home organisation, have decided to dig in at th be sure of a job back home, this is no longer a certainty. And recently some of the perks of expat jobs boarding school fees and other elements of a

has been little good research fill the gap in the current edition of The International Journal for Human Resource Management. He reports the findings of a survey of 258 dual-career couples and their experiences of working abroad. He looked at before and after they went, assessed their willingness to relocate, adjustments made,

company. His main conclusion is

on a 1970s, married male whose wife remained at home and looked after the stereotype applies to an of people. The increased diversity of the workforce

centre rather than risk going abroad. While expats used to cushioned lifestyle - have

been withdrawn by some So what should you do? One problem is that there in this area. Michael Harvey, a US academic, attempts to

causes of stress and the type of support provided by the expatriate manager's

that multinational corporations need to assist couples and update their human resources policies. Most relocation policies

used by companies are based children - even though the increasingly small number would suggest the time has

these outdated policies. Mr Harvey suggests a combination of counselling and assistance in preparing he accompanying partner. Other possibilities suggested by those who responded to the survey were that the

corporation offers the spouse a post in the same country, or at least some corporate support such as a personal essistant, transport, letters of introduction, help with childcare support, and assistance in keening professional skills up to

In reality, many well known multinationals still provide no support at all for anyone moving abroad, and couples are having to make their own adjustments for overseas appointments. It is no longer rare for a couple to live in, for

example, Rome, where she pursues her career, and he his in London. It is not unreasonable to expect that the dual-career problem will in part, be resolved by faster In such a case, the company might be advised to provide generous travel

expenses and assistance with renting or buying apartments. Compared with the cost of losing your marketing manager, this is likely to be the cheaper

John W. Hunt is Professor of Organisational Behaviour a London Business School and a consultant to private and public sector clients. This column appears fortnightly.

**MANAGEMENT OVERSEAS POSTINGS** 

## Don't forget the trailing spouse

Edi Smockum looks at some innovative solutions to the problems of working abroad

who follow their partners around the globe - at their peril. That was the warning. in Paris, from Markus Andres, human resource manager for Zurich Insurance. With the pool of potential accept overseas postings

candidates may not repre-

sent the best possible selec-

A recent survey under-

tion", he pointed out.

candidates. The most frequent reason for employees turning down expatriate appointments was concern

about their spouse's career. With that in mind, if your company's high flyer is married to another high flyer employees who are willing to with a different company. can you entice them to set shrinking, "the remaining off to foreign parts? Some companies have found innovative solutions Motorola, which has 2,000

Companies ignore the lined the problem: 74 per wide, offers trailing spouses problem of the cent of human resources up to \$7,500 a year for educa-tratling spouse" - managers said their chief tion. This is broadly interthose selfless individuals global challenge was finding preted by the company - a spouse can, for example, use the money to invest in starting up a business. Alternatively, the trailing spouse can bank the money for their return, as long as it is used within two years of their getting back.

creditation up to F19,000 (\$4,400) per assignment. But, as Shell found, many potential expatriates are hungrier for information and advice than they are for funding. Its spouse employment centre has helped more than 1,000 couples prepare for placements overseas. The

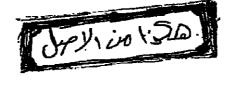
centre recommends schools. medical facilities and housing advice and provides up-to-date information on Shell International Petroemployment, study, selfleum, the Anglo-Dutch oil employment and voluntary company which has 20 per work. This support, fully cent of its employees serving funded by Shell, has been found to be very cost effiin overseas appointments. reimburses 80 per cent of the Failed postings are a great expatriate employees world- costs of vocational training,

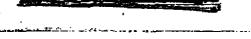
further education or re-ac- risk in expatriate placements, and one that few companies take precautions against. Not only are the costs of returning a recentlymoved employee and family high, the it can damage relations with local clients. Family breakdown or mal-

adjustment is the most cited reason for an employee to have to be repatriated. Schlumberger, French-US oil services company, extended its worldwide company intranet to include trailing spouses with home computers. This not only gave the accompanying partner access to Schlumberger's intranet, but also allowed them on to

the world wide web. The main obstacle for most trailing spouses is the difficulty in getting a work permit. Many multilateral organisations, such as the London-based European Bank for Reconstruction and Development, have been able to negotiate work permits for trailing spouses during the course of selecting sites for their offices.

Kathleen van der Wilk-Carlton of Shell thinks companies should begin to flex their muscles: "If governments can get agreements for work permits for diplomatic staff, it is time for companies to lobby governments for the same rights,"





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**GOVERNMENT BOND SPREADS VS ECU** 

#### **EQUITIES**

## Europe weakens on rate fears

#### **EUROPEAN OVERVIEW** By Martin Dickson.

Trans-European stock indices declined yesterday against a background of a strengthening D-Mark, worries over continental interest rate increases and a softer

tone on Wall Street. The FTSE Eurotop 300 index closed at 1,220.48, down 1.28 per cent, while the narrower Eurotop 100 index closed at 2,802.43, down 1.01

per cent .
The FTSE resources ecoindustries dropped 0.70 per cent and services 1.34 per cent. Utilities were off 1.12 per cent and financials 1.46 per cent.

The market was dominated by a sharp rise in the D-Mark, which traded at a three-month peak to the dol-lar and at its strongest tors, retail banks dropped 1.6 against sterling since mid- per cent, with interest rate

speculation that the Bundesbank might move early to Ecu 1.8 to Ecu 50.45 while

promise by the European Union over the choice of the first president of the European Central Bank.

There were interest movements elsewhere, with the Danish central bank unexpectly raising rates to defend the krone, while Spain cut its money market rates to bring them more into line with Emu members.

German government bonds, which are expected to provide many of the benchmarks for the Eurozone fixed income market, closed down, The FTSE resources eco-nomic group closed down 2.3 in later trading. The 10-year per cent, while general was quoted late in the day at industries down 2.3 in later trading. The loyear rumours that it might be

102.00, down 0.16. In equities, the weaker in equities, the interest tone was accentuated by a

#### Retail banks drop

concerns particularly strong This came amid renewed in Germany and Denmark.

peculation that the Bundes Dresduer Bank dropped increase interest rates fol- Den Danske Bank was

MAIN M	OVER	3
FISE Earting 38	D Close price	Day's change
RSES		
Adecco (Br)	415.37	+19.1
Holderhank B	1,009,62	+43.2
Smitted Bohm	10.75	
UPM-Kyramene	28.22	+0.8
Siebe	20.82	+0.6
Skanska B	44.94	+1.2
G2200	25.84	+0.7
Distance	8.70	+0.2
FALLS		
D/S Svendborn B	57.851.7	-3.886
Sonoth & N	2.58	-02
Heidelb Zem	80.16	-5.0
HSBC 4K\$10	25.33	-1.5
December December	444 79	

+4.8 +4.5 +3.2 +3.1 +2.8 +2.7 +2.7 +2.7

TYRKEE MOUTH FORD FUTURES (LIFFS) Ecution poles of 100%													
	Open	Sett price	Change	High	Line	Est. vol	Open is						
May	-	95.750	-0.010		-	0	0						
Jua	95.760	95.750	-0.010	95.780	95.750	136	12499						
juli .	-	95.750	0.010	•	-	0	0						
Seo	95.790	96.755	-0.015	95,790	95.750	281	17234						

OTHER	INDICES						
	May 5	jiay 4	May 10	1 <b>iig</b> b	998 Low	Since an High	esplisation Low
OJ Storce 56 OJ Staro Star 50 MSCI Europe	3267.98	3320.63 3309.95 1224.63	10 1204.93	3998.00 3345.86 1240.82	2574.51 2466.\$1 980.50	3395 -3395,85 1240,82	2976-42 2995,52 510,78

( }

lowing last weekend's com- down Ecu 6.5 at Ecu 111.71. borghini, the luxury car promise by the European In the UK, HSBC, which manufacturer. BMW was Kong, saw its 75p shares drop Ecu 0.9 to Ecu 27.18 fol-

lowing a sharp decline in Hong Kong's Hang Seng

However, in Paris bid Ecu 5.6. rumours helped Credit Com-

dropped 2.15 per cent with Volkswagen falling Ecu 22.4 planning to take over Lam-

FTSE Actuaries Share Indices

has a large exposure to Hong down Ecu 24.2 at Ecu The insurance sector

dipped 1.3 per cent. Fortis AG was hit by market fears that its bid talks with Générale de Banque were breaking down. Its shares closed at Ecu 261.51, down

Axa-UAP shares closed at Ecu 111.02, up 1.2, after it announced plans to launch an offer for all the publicly held shares it does not already own in Royale Belge. Rising sectors included pharmaceuticals and packag-

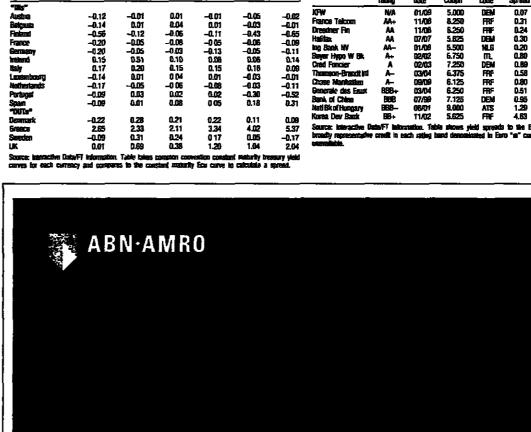
Mariensi & Regional Mariens	Ecv Index	Day's	change points	Yield gross %	मध्यक्री प्रदर्भ	Total rate (Ecs)
FTSE Eurolop 900.	1220.48	-1.28	-15.80	1.92	9.18	1239.57
FISE Eurolog 100	2802.43	-1.01	-28.47	2.01	2.93	990.87
FTSE Ebloc 100	997.96	<u>-2.00</u>	-20.35	1.58	0.39	<u>998.34</u>
FISE Eurotop 360 Ragio	8					
Eurobioc	1244.63	-1.84	-23.38	1.57	3.48	1258.09
UK	1161.45	-0.86	-10.06	2.76	16.71	1198.24
Europe Ex-Europiac Europe Ex-Let	1205.08 1254.77	-0.73 -1.50	-8.90 -19.09	2.27 1.49	13,49 4,90	1231.74 1283.07
FTSE Euroteo Industry 5		-130	-12.00	1,49	50	ICHANI
<u></u>						
SESOURCES	1036.85	<u>-2.30</u>	-24.37	2.62	7.15	1059.02
Eductive Industries	991.49	+0.35	+3.44	2.63	0.00	991.49
Oil, integrated Oil, Exploration & Prod	992.99 1003.49	-2.49 +1.08	-25.39 +10.77	2.62 2.44	0.00 0.00	992.99 1003.49
GENERAL MOUSTRES						
	1178.04	-6.70	-8.35	1,82	8.27	1189.67
Construction Building Metts & Merchs	1058.69 1016.51	+2.75 +0.27	+28.32 +2.71	2.89 2.82	0.00 0.00	1058.69 1016.51
Chémicais	991.57	-0.81	-8.14	217	4.82	996.37
Divernified industrials	1009.69	-1.11	-11.30	2.1D	0.00	1009.69
Beckrook: & Best Equip	1015.81	+0.19	+1.96	1.63	0.00	1015.87
Engineering	1006.80	-0.93	-9.41	203	0.00	1006.80
Paper, Poling & Priming	1021.38	+0.58	+6.93	2.31	6.00	1021.39
CONSUMER GOODS	1153,07	-1,15	-13.48	1.58	8.37	1174.09
Actorobiles	1001,59	-2.15	-21.97	0.90	0.00	1001,59
Alcoholic Beverages Food Producers	883.25 1008.53	-11,78 -1,15	-117.96 -11.66	2.54 1.55	0.00	883.25 1006.53
Household Goods & Texas	1013.63	-0.23	-231	1.22	0.72	1014.35
Healthcare	975.42	-3.77	-38.21	2.38	8.00	975.42
Pharmaceuticals	1012.94	+0.54	+5.47	1.31	8.00	101294
Tobacco	991.85	-0.56	-5.54	4.03	0.00	991.85
SERVICES	1156.18	-1.24	-14.46	1,86	7.10	1172.60
Distribution	1011.47	-0.32	-3.27	0,89	0.00	1011,47
Leisaro & Hotels Media	1004.88 990.50	-1.63 -1.63	-10.66 -16.40	2.43 2.34	9.00 00.0	1004.88 990.50
Retailers, Food	987.08	-1.63 -1.61	-16.40 -16.19	2.02	0.00	987.08
Retailers, General	997.94	-0.63	-9.33	226	0.00	997.94
Telecommunications	1001.70	-1.21	-12.30	1.59	0.00	1001.70
Brewerles, Pube & Rests	988.70	-1.30	-T3.00	2.70	0.00	988.70
Support Services Transport	999.63 980.51	-0.16	-1.57 -25.19	1,31 2,26	0.00 0.00	999 63 980.51
injornation Tachnology	1004.07	-2.51 -0.42	-23.19 -4.27	0.23	0.00	1004.07
FILTES .	1306.00	-1.12	-14.84	322	23.71	1346.09
Pechicity	996.04	-0.95	-9.55	3.43	0.00	998.04
Gee Distribution	989.06	-1.48	-14.88	1.67	83.72	1079.05
Water	984.85	-1.54	-15.42	5.17	9.60	984 85
FILMICIALS	1369.32	-1.46	-20.33	1,82	11.04	1388.84
Banks, Fletali	998.24	-1,50	-16.21	2.07	1.68	999.89
Towards	1002.31	-1.30	-13,19	1.25	0.00	1002.31
Life Indurance	1003.97	-1.10	-11.12	1.49	0.00	1003.97
Other Roancial	995.46 989.22	-1.21	-12.18 -16.49	2.08 2.23	0.00 00:0	995.46 989.22
investment Companies Property	989.85 989.85	-1.64 -0.59	-16.49 -5.86	2.70 2.70	0.00 0.00	989.22 989.85
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Synthetic Euro against the dollar

**EUROZONE CREDIT SPREADS VS ECU** 

S & P rating



"Which are better able to advise on the implications of the euro, European banks or global ones?"

the euro

You'll get more insights from ABN AMRO.

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#### **GOVERNMENT BONDS** By Vincent Boland in London and John Labate in New York

Prices fell further yesterday on renewed concern about US interest rates, a surprise rise in rates in Denmark. and a rumour that Hans Tietmeyer, president of the Bundesbank, was going to resign over the European

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central bank row. Dealers, and Mr Tiet-"absolute nonsense". However, the Bundesbank head did express concern last night that the ECB row had

dented the euro's image. Denmark's 50 basis point rate rise, which analysts cash or futures markets. said was almost entirely for crippled by strikes - was a quickly petered out.

further excuse for European markets to move lower but did not signal any wider European rate moves.

The Danish rise has absolutely aothing to do with German interest rates but just got the markets jittery," said Phyllis Reed, bond strategist at Barclays Capital.

counted by the market, was duction of the euro at the start of next year. GERMAN BUNDS again

Europe, although activity was not heavy in either the The June future settled domestic reasons to support 0.21 lower at 106.83, having points to 5.28 per cent, while the krone - the country is attempted an early rally that

the main reason for bunds weakening, rather than concern about the European Central Bank compromise.

"The markets don't give a hoot about this [ECB]," said David Knott, core Europe The quarter-point cut in strategist at Deutsche Mor-Spanish rates, well dis- gan Grenfell. "The sell-off in bunds has more to do with seen as more relevant, point-ing the way to convergence Bundesbank's attitude to the meyer, said the rumour was of rates ahead of the intro- ECB. The Bundesbank is more concerned with process than personality."

Other European markets led the weaker tone in weakened in tandem with bunds, with DANISH BONDS bearing the brunt of the rate rise. The yield on the benchmark 2007 bond rose 6 basis the yield spread to 10-year bunds widened three points tled % lower at 108 ; with trade in a narrow range in book report.

German market's reliance on is not in the first group of on Liffe. The 10-year spread return to stability this week Treasuries for direction as European monetary union to bunds closed at 92 basis after last week's swings on

FRENCH BONDS weak- formed bunds. ened slightly ahead of an auction of up to FFr22bn of long-dated paper later this week. The June notional future settled 0.20 lower at 103,32 in quiet trading. UK CILTS were also slug-

gish, and the spread over 10year bunds again climbed above 90 basis points, ahead of the regular meeting of the Bank of England's monetary policy committee. Few observers expect a rise in rates, and the consensus is growing that UK rates may have peaked. The focus is to 100 , vielding 5.591 per mainly on whether the committee will give any signal to that effect after the meeting.

The June gilt future set-

points as gilts underper-

Analysts had predicted that any doubts about the euro would be good for gilts, but it may take a signal on lower interest rates to give the market some new momentum. US TREASURIES retreated

in quiet morning trading. The 30-year bond, the benchmark for long-term US interest rates, lost  $\frac{1}{12}$  to  $102\frac{1}{12}$  by mid-day, sending the yield up to 5.958 per cent. Shorter-term issues also fell. The two-year note lost 🛓

fell 4 to 981, ylelding 5.675 per cent.

Treasuries continued to

Analysts pointed to the to 30 basis points. Denmark about 55,000 contracts traded thin trading, following a interest rate fears.

In the morning market an official of the National Association of Purchasing Management said that capacity utilisation levels were being reduced by a slowdown in

There were few major economic reports released yesterday. However, the index of leading economic indica-tors rose 0.2 per cent in March, following a 0.4 per cent rise in February.

The release was in line

with analysts' expectations and had little immediate impact on the market.

Today, analysts expect the release of data about manufactureres' orders and the Federal Reserve's "beige

#### **NEWS DIGEST**

#### **FOOTBALL**

#### AFC Ajax to raise FI 124m through share offering

AFC Ajax, the star Dutch football club, was yesterday set to raise FI 123,75m (\$61.65m) through a share issue priced at FI 25 spiece. The 4.95m units on offer represent 27 per cent of the club's capital, with a significant amount pre-placed among more than 15,000 supporters.

In addition to the supporters' preferential allocation, Alax is making about 3 per cent of its equity available as the basis of an option scheme for staff, including players.

Subscriptions for institutions and general retail investors in

the Issue, which is being led by ABN Amro Rothschild, are to close by Friday. Trading on the Amsterdam stock exchange is due to begin next Monday. Gordon Cramb, Amsterdam

#### MANNESMANN CAPITAL-RAISING

#### Merrill to be joint co-ordinator

Mannesmann, the German conglomerate, has named Merrill Lynch, the US-based investment bank, as its joint global co-ordinator for a DM3bn (\$1.7bn) capital increase. The capital-raising, announced earlier this year, will be via a public issue of new shares in Germany and private placements in the rest of the world.

Deutsche Bank has already been named as the other global co-ordinator of the exercise, with Goldman Sachs as a lead manager. Global book-building will start in June.

The funds from the increase are expected to be used to finance growth in telecommunications. Mannesmann already runs D2, Germany's largest mobile telecoms network. It was also one of the first companies to take advantage of the January 1 liberalisation of the German fixed telecoms market, with Arcor, its joint venture with Deutsche Bahn, the railway company. Lucy Smy, Bonn

#### **YENEZUELA**

#### Cisneros places \$80m of notes

Venezuela's Cisneros Group has placed \$80m of notes with a coupon of 11 per cent for imasac, its Argentine media holding company. The notes were purchased by institutional investors in Latin America, Europe and the US. The proceeds from the placement will be used primarily to

refinance the principal and accrued interest on a \$50m loan used by Cisneros to acquire Imagen Satelital, an Imasac subsidiary, as well as to fund the first three years of interest payments on the notes and other expenses.

Cisneros Group acquired Imagen Satelital, Argentina's leading cable television programmer, in 1997 as part of its regional expansion. Bear Steams was the lead manager for the placement. New York-based Violy, Byorum & Partners

## Fannie Mae set to price New international bond issues its fifth jumbo of 1998

#### INTERNATIONAL BONDS

By Edward Luce

The Federal National trader, "Unlike some other Mortgage Association (Fan- large international borrownie Mae) will today price its ers, it has pledged to service the maximum L750bn perlatest jumbo issue - the fifth the market regularly, even since it launched its "reference notes" programme ear-

lier this year. The 10-year \$3bn offering. 33 basis points over the markets during 1998.

The bond, lead-managed

"Fannie Mae is certainly sticking to its commitment when it might not be an optimal moment from the com-

mercial point of view." which will be priced at about divided on whether such Chase Manhattan, was given 10-year Treasury, takes the although it was clear Fannie borrower's total jumbo issu- Mae's inaugural jumbo in the distribution went to Italance to just under \$20bn for January was around five ian investors. the year - roughly half what basis points tighter than it hopes to raise in the bond where a smaller issue would launch its debut euro-

have been priced. by Credit Suisse First Bos- 10-year benchmark is trading domestic bond programme. ton. Lehman Brothers and at about 32 to 33 basis points

followed its sovereign to the to provide a liquid and con- Italian lira sector with a sistent yield curve," said one slightly smaller offering than expected. The L400bn issue - some way short of basis points over the Italian three-year swaps curve.

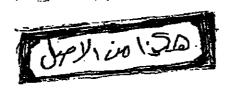
Traders said the bond, Bond analysts remain which was lead-managed by issues save on costs, a respectable but not overwhelming reception. Most of Finland is expected to

denominated offering later Fannie Mae's existing this week as part of its Other borrowers in the

Borrower	Aznount m.	Coupon %	Price	Materity	Feet %	Spreed bp	Book-runner
III US DOLLARS							
Famile Mae	3bn	(a_l)#	(a)FI	May 2008	0,15R	(a)(5%Feb08)	CSFE/Lennan/MSDW
ING Bankt	16n	æί		May 2003		-	JP Morgan Securities
Spintab‡	500	(C)	100.03			-	CSFB
Eurofima	400	5.75		May 2002 Jun 2008		+20(5%Feb01)	Pancas/(M) PaintiWebber Inti(UK)
Bankers Trust Australia(d)‡ Movicom	250 150	(d1) 9.25 <b>8</b>		May 2008		+3770Feb080	Chase Manhattan Ind
D-MARKS		020	33.133	may coo		. 41.01 00004	IIII-IIII-I
	250	5.125	00.6470	May 2002	0.000	. FORM North	Deutsche Bank
SPT Telecom(f)	230	<b>9.123</b>	39.04/N	HILLY ZUUS	0.301	0123040405	Centerie par
# YEN .							
Huson Pty Ltd(g)#	21bn	(g1)	100.00	Jun 2003	2810	-	Serwa International
III ITALIAN LIRE							_
City of Mascow	400bn	9.875	99.64R	May 2001	0.50FI	+525(swaps)	Chase Manhattan inti
SWISS FRANCS							
DeNIB	200	2.75	101.80	Jun 2003	2.00	-	ABN Ammo@urich Branch
EUROS(e)							
high Permanent B/St	320	(A)	99.74R	May 2003	0.15R	-	Paribas
Bayerische Hypo()	150	8.50		Jun 5000		-	BayerHypo/BayerVB
Grédit Local de France(k)	50	Zero		Jun 2006		-	BNP
Bacob Overseas	50	5.00(1)	102.10	Aug 2003	1.875	•	Artesia Luxembourg
CANADIAN DOLLARS							
CIBC(m)#	100	(m1)	99.688R	May 2003	0.20R	-	CIBC Wood Gundy
IN NEW ZEALAND DOLLARS	1		•				
National Australia Sank	100	8.25	100.87	Jun 2000	1.25	-	RBC DS Global Markets
IL PESETAS							
Helaba	12bn	5.60	99.075	May 2018	I Indian	_	Cala Madrid/Memil
III GREEK DRACHMA	IZLAI	3.00	86.073	MALY ZUID	UNUSCA		· ·
			~~~				ABN Amro/Credito
European Inviment Bankin)	30bn	(n1)		Apr 2004	-		
Pinal terms, non-callable unless	stated. '	Yield spre	ad (over r	elevant gove	emment b	oondjat launch	supplied by lead manage
*Unilsted. ‡ Floating-rate note.	#Semi-a	nnual cor	ppon⊾R: li	xed re-offer	buce: te	es shown at re	-offer level, a) Priced took
33-34bp over Treasuries, b) 3-tr							

ite has als	so iss	ued	l tw	o live-	. Iī	re bas	sis po	oints	wider	than	and	(another debut euro offering) and France Telecom in a 16- year dollar issue.  Australian corporate loans, git 3-mth Libor +846, it 3-mt										ing 1st and an finencial advisers on the lange																	
WORED	(B0	(II)	Ä	(FES)						海边				entre Sentre						:																			
BENCHM		G(	OVE	RNM		_				Year		ND F	TUF	RES A	ND O	PT10	NS				Ecu										ERNA	TIONA	L BO	IDS			Day's 1	Mith's :	Spread
May 5 Australia		<b>3</b> .	7 00		7		chg Wi letd		Hosth chg yld +0 10	chg yld		ITICE IOTIONAL FE	ENCH F	nan Am	RFS (MATI	n eesw	1000				M SCH BORD	<u>-</u> -	ATTF1 ECUT Set price	100,000 Change	High	Low	Est.	vol. Op	 en est	May 5		Rec dele	Congram	S & P Railing	Price Price			chae	Santa
	09		7 90	0 130 01 0 103 66	00	4 16	-001 -002	+0.01 +0.06	+0.12 +0.04	+0.28	- Jun	- (	)pen 13.61	Sett price		H <sub>4</sub>	gh Lov			Open l=1. 86,335	US COR		103.10 <b>E B</b> O	-0.06 NDS	102.52	102.36	3	2 !	5,118	- <b>#</b> 8 BB Scala	ero del	02/07		AAA AA	104.9700 104.5000			+0.17 +0.19	
Belgium	07. 01 03.		1 00	5 10399 0 9960 0 10830	00	424	+0.04 - -0.02	-003 -004	+0.16 +0.15 +0.15	+0 59	Sep	11	3.06	10C.86	-0.20	103			2	3,913		Red	ı	SAP	. Biol	Bid	Day's	Min's chge	Sort	Plate Finland	FFW.	03/04 69/02	5.375	A	181.1800 100.6132	5.13	+0.02	+0.16	+0.35
Canada	09:	99	4,75	0 39.49 0 113.10	00	5 14	+0.04	-0 06 -0 08	+0.35	+0.53	Strik			C/	TRONS (MA LLS ep	TIF)	Jun		OTS		May 4  III UTALITIES  Pac Bell	date		_	price	yeld	<del>1</del> 10		GOVES	Austria Abber		01/04 02/04			103.3806 105.4100			+0.17 +0.16	+9.07
Denmark		07	7 00	0 191 <i>7</i> 7 0 11230	00	532	+0.26 +0.10	+0.31 +0.03	+0 49 +0.25	-3 12	Proce 102 103		Jun 1,33 0.61	. 1 0	45 90	;	Q.15 Q.43	0 1	Sep 174 1.17	<del>.</del>	NY Tel CATE	87/02 08/25 06/08	7.00	A+	104.1487 99.1815 110.3999	6.10 7.06 6.56	-0.03 -0.01 -0.01	+0.16 +0.12 +0.19	+0,47 +1,12 +0,90	Cred F	oncier PN	02/04 12/01	9.125		119.7500 99.8127	5.09	+0.04		
Potend	01: 04:	06	7.25	0 104 69 0 114 53	00	4.99	+0 04 +0 03 +0 04	-0 03 +0 05	+0 14 +0 19 +0.13	-1,14	104 105	er beter Calik	0 19 20 0 4 843 0	Ō	51 25 Marines (1975)	- -	1 01 1.85 2019 54,178 Pag	2	.77 2.50	:	GECC	05/07			117.1907	6.23	_	+9.20	·: +0,57	音音 His Abbey		02/07			112.7500 108.5500			+0.05 +0.09	-0.03 +0.04
France	01 - 10 - 10 -	04 07	6 75 5 <b>3</b> 0	0 9969 0 11071 0 10359	00 00	4.78 501	+0 C2	-0 02 -0 04	+0 16 +0 16	-045 -067											Banc One US West	08/02 01/07		A+ 688+	103.7957 105.0577	6.21 6.52	-0.04 -0.01	+0.17 +8.20	+0.58 +0.88	Walt DI 58 FFI	sney K	06/00 03/01	8.825	A	107.3800 100.1130	4.87	-		+0.26
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	07-1 07-1	07 27	6.00 6.50	0 107.22	00 00	199 - 552 -	+0.03 -0.03	-0 05 -0 07	+0 16 +0 13	-0.77 -1 02	Jen:		per 7 05	Sett price 106.83	Change -0 21	1607.	ja Los 25 106.7	-		Open int. 154856	Dayton Hud  TE AGENCIES	06/21		886+	132,0566	6.90	-	+0.16	+0.96	British Abbey	646 Kat 1770	03/00 02/02	7.625		101.2064 99.9583	5.91		-0.01 -0.01	
troland italy	04 08.1	06	9.00	0 101 00 0 118 65 0 102 70	00	517	-004 +002 +005	-0 03 -0 02 +0 01	+0.22 +0.22	- 1 55	Sep		6 49	106 48	-0.21	106.		7	124	2922	FHUNG Slma Frama	04/07 03/00 02/18	7.50	N/A	107.7973 102.9847 130.6681	5.99 5.76 6.22	-0.01 -0.01	+0.20 +0.20 +0.15	+0.33 +0.17 +0.28	EE EB EBB ABBH As		04/07 06/07			108.2300 104.7267			+0.18 +0.20	+0.36 +0.76
·,	05.4 07.1	0C G.	625 675	0 105.210 0 111.420	00 00	481 - 517 -	-065 -005	-001 -002 -005	+0 14 +0 14	-3.21 <b>-2.33</b>	Strike Price		15 UP 11		11S Aug	Sep	Auri	— PI	UTS	Sep	FFCS	06/06			119,1717	5.92	-0.01	+0.20	+0.26	Quebec Citicorp	FRN	01/07 02/04	7.000 5.734	A+	104.4269 100.0868	6.33	+0.61	+0.16	+0.66
Japan	117 411 124	UC	640	0 122 500 0 110 94 0 116 90	00	047 -	-000 -001 -001	-0.05 -0.03	-0.18 -0.25		1065 1078	0 0.1 0 0.1	19 10	0.65 0.42	0.83 0.59	0.97 0.73	0.26 0 0.47 0	1.67 1.94	0.85 1.11	0.99 1.25	Stone Cont AK SE Pacallo	02/01 12/01 06/04	9.88 9.13 10.75		103.0000 106.2500 102.7500	0.00 0.00 0.00	=	-	Ξ	Beyer L Toxosto	-8k	08/04 05/04			119.6731 114.3675				+0.14 +0.10
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Harway	81 4	06 ∿j	9 00	0 107 46 0 107 176	25 M	449	+001 +005	-003 -001	-0.05 +0.26	-0.95 -0.49	Jun		реп 4 81	Sett price 164 69	-013			5 1	39,165	Open int. 278,291	Latest Prime rate	8	Const	(\$00) MONÜN	Treasury 64	- Teres	)esr		5.59 5.62	Cred Fo		98/02 07/99	4.750	A	113.8383 100.3505	1.38		-0.25	+0.66 -0.70
Portugal	81 t	94	8 50	09.36 103.53 110.47	Ç.	427	+0 03 +0 04 20 0+	-0.04 -0.04	+0.22 +0.15 +0.15		Sep		-	104.54	-0.13	-	_		1,900	9,181	Stoker from rate Fed.funds Fed.funds at inter		Skin One p	enii enii ex	5.		Teatr		5,62 5,63 5,67 5,95	London C Standard		degs. Yelds	Local maste	t standard#	terestined by	Source: is: mis.	steractive D		, exic
Spain	07.4 0.11		7 40	1115 GR	100	123 4	+0 05 +0 05	-604 -004	-U 10 -0 16	-1 16			RAKAN E	CORL FOTO	RES (LIFFE Ctrange	)* DM250	0,000 100 shs			Open int.	UK BO	IDS		. :	· 														
Sweden Sedgerland	01.1 09.1	υ,-	8 00	104 13- 2 119 581	10	527	H105	+0 07 -0.05	+0 13		Jun Sep		-	704 70 104 55	-0.10 -0.11	-	· .	•	0	846 0	FTSE Act	uaries	Govt.	Secu			censed	xtiad			_1	umon vletć			oupce viek		UK Blob som	K Indi	
	034 064	0.	150	105,470 111,000 99,031	M	J03 -	.015 .015	-0.00 -0.06	+017 +025 -000	-0 18 -0 45 -0 21	italy <b>w</b> xi	•	LIAK 6	JVT. BOOK	(8TP) FU		FFE)* Llag 20	Om 100	100 pths of	<u> </u>	UK EEEs 1 Up to 5 yea		May 5 120.37	-0.	22 % May	1 i	2.51	ytd 3.4	7 5 yrs		May 5	Stary 1 Yr.		5 Max	y 1 Yr. a	ago May	5 May	y 1 Yr.	r. 850 7,46
	11 i 12 i 06 î	p.	7.39	) 104.53 ) 110.53 ) 123.443	50	532 4	-005 -006 -004	-007 -007 -007	-005 -007	-1 35 -1 55 -1 77	Jun	11	реп 8.80	Seti price 118 60	-0.20	Hig 119.1	12 118.5	7	42837	Open let. 124158	2 5-15 years ( 3 Over 15 year 4 bredsemable	s (5) s (4)	164.51 204.84 257.73	-0. -0.	.59 206 .99 260	.06 .32	3.46 4.18 5.07	2.6 1.9 2.2	20 yrs	5	5.77	5.71 7. 5.71 7.	.75 5.1 .81 5.7 .83	<b>50</b> 5.3		7 5.90	0 5.8	84 7	7.63 7.63
uS	10.4 11.1	ы	787	104011 11152	X)	573	-00I	-0 14	+0 17 -021	-0.66 -0.79	Sep ■ ITa		9. ).4 '. <b>BQN20</b>	119.05 (BTP) P.T	-0.22 URES ()PT	119.1 IORS (LF	14 119 14 <del>113</del> ) Lira <b>21)0</b> eq		120 s of 100%	10023	5 All stocks (4 Index-lighted	7)	156 40	-0.	.38 157	.00	3.28	29	i		bal	ation 5%	_		Inflation				
ECII	06 ) 06 )	27 140	6 J?:		70 70	597 -	-001 -001	-0.12 -0.14 -0.07	-021 -017	-0 90 -0 91 +0 11	Strike Proce				US	,	Jue	Pt	ns —		6 Up to 5 year 7 Over 5 years	(10)	215.39 225.37	-0.0 -0.2	20 225.8	52	0.65 1.55	3.13 2.37	- Carrie		2.78 2.81		3.31 3.64		1.99		2.55 3.43		_
tombre chrish; "No Yellis Licia mades		T, III,		) (031A)			Swice	-0 (4 Meaded	+0 15 1 Cuts F7 8	de quita	11850 1190 11950	Ĉ	0. 0. 0.1	n	1 0- 0.7: 0.56	3	0,37 0.51 1,00		0.44 0 % 0.87	5	8 All stocks (f) Average gress reds		223.27 ac shows	-0.1 storn. Cas			1.47 N; <b>Mode</b> rn	2.43 6 <b>6%</b> -104		-						225 4	,,~0		
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	ę.	a S	r. Irval	Spread vs		EMUS	•	Ged	95	Spread	•	OTICINAL SP	1962\$H E	KOHO FUTT	RES (NET	۹					Gent. Secs. (UK O FISE payments	164.8	6 105.3	8 104,77	104.49 1	104.39	96.80	05.60	93.31	Fbad is 7 40 40940	Oerest 1/35), key 4	1.42 49	149.02			497 28 Yr  41,28 118			
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Belgaum Canada Denmank	51 53 53	1 .	+0 14 -0 42 -0 15	-0 57 -0 29 -0 36	Par Sp:	M) H		5 12	+0 15 +0 18 +0 30	-0.56 -0.53 -0.41	Sep		-	108.23	-0 19		-		-	586		Notes in	. Yield t Red	Price £ + or	SZecei r~ High i	k		Rairs	Ye	d Red Price	12 + <b>G</b> r –	_62 week _ High Low				Yeld_		_52	west
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tetard taly tetard	5.13 5.23 1.80	3 .	-0.21 -0.28 -3.47	-0 50 -0 43		또 idenci in uhanj		5 10 ET Indone	+0 13	-0.58	Jun Sep M K	TTOKAL UK	3.34 - GILT FL	103 06 104 41 Transes (L	-0.20 -0.20 FFET \$50.0	103.3 100 32nd	•	ı	425 0	10083 0	Each 12pc 1998 — Treas 9 <sup>1</sup> 20c 1999;; Treas Filg Rate 1999 Each 12 Lanc 1999	116 93 #- 117	4 684	102 <u>13</u> - 1013 - 1003 - 1043 -	-6 10412 10 1004 10	ili⊾ Tresse IOL Comeri	Poor 200	##	8.01 6.46 7.53 8.29	5.98 118 5.90 104 6.97 119 6.96 126	를 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다	1194 <sub>2</sub> 1127 105 972 1204 1134 1772 1101	21 <sub>2</sub> 92 10	1	78.59 2.77 78.59 2.82 78.59 2.72	2 10 7 2 105 11 2 290 17	98. 95/1 - 26/1 -	· 1975 · 1984 · 1953 · 125强	185 181 4 11718

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Denmark	5.35	• 0.15		Sweden		5.77			JE HOTTONA	L 5 YEAR	GELT FUTURE	e affin e	180 DOD 100	lithe of 1009				Hotes	<u> ==</u>	Red Price	E+#~	High			Rains.	that Re	ed Price 2	<u> 2 + qr − He</u>	n Low		Notes:		(Z) Price (	+47-
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**CURRENCIES & MONEY** 

## Optimism for Europe buoys D-Mark

MARKETS REPORT

D-Mark soared yesterday, unexpectedly ben-efiting from the weekend's soon. Some argue that the European Union summit in

The fudged deal struck at the summit over the presidency of the European central bank was forecast to noted yesterday's Danish burt the credibility of the rate rise, saying that other ECB and thus damage the northern European central D-Mark against the dollar. banks could follow suit. Den-Wim Duisenberg will start as ECB president, but will let Jean-Claude Trichet succeed him during his eight-year per cent respectively. term. However, investors paid little attention to the fudge, noting instead that the ECB's board was full of the ECB's board was full of don, rejected the idea that hawks and that almost all Denmark or the ECB row the details of European monetary union have now been sorted out. They poured out of the dollar, pound and Swiss franc, which had all functioned as safe havens

from Emu, into the D-Mark.

Soom of the

nomic recovery in Europe. soon. Some argue that the fudge over the ECB could that European monetary pol-icy would stay tight. Others noted yesterday's Danish mark raised its discount and

However, Nick Parsons, currency strategist at Pari-bas Capital Markets in Lon-

repo rates 50 basis points

POUND IN NEW YORK 1.9600 1.5574 1.5529 1.6375

They were also encour-aged by the growing eco-into a rate increase. Denmark was not joining Emu, There is increasing talk in he pointed out, and could the market that the Bundesfudge over the ECB could He said the talk about Den-prompt the bank into an mark and the ECB simply increase, as a way of proving provided pension and investbuy D-Marks. He noted that Euromark futures contracts. which reflect the market's forecast for German interest rates, ended the day barely

changed.
Mr Parsons said investors each to 4.00 per cent and 4.25 had wanted to buy D-Marks because of the end of Emu doubts, the start of the European upturn, and the fact that three years of a rising dollar had left them short of the German currency.

Steven Englander, interna-tional economist at Salomon the pound to DM2.941. The Smith Barney in London, pound has now dropped 17 have worked itself into a Spain cut its key money tizzy over the imminence of rate by 25 basis points to 4.25 a German rate rise, but I per cent as expected.

The yen was even stronger than the D-Mark yester-day. It rose Y1.5 against the dollar to Y131.7 after Robert Rubin, US treasury secremight be resigning soon and

close in London at DM1.773

pfgs in the last five weeks.

Mr Rubin confirmed that he would stay in his post until the end of the year, which led many in the market to conclude that he would leave it soon after.

said that a falling yen would not necessarily help Japan's

■ Denmark has no plans to join Emu - a fact that seems to have escaped some trad-The D-Mark hit threeers yesterday. Because it is month highs against the dol-lar and sterling. It rose 0.9 staying out of Emu, its interpfgs against the dollar to

TOTHER CURRENCIES 

est rates can move in isola-tion. The Bank of Denmark explained yesterday's rate rise by saying: "In the past few months there has been a tendency of the crown weakening, and the central bank has sold foreign currencies since February to support the crown." The crown's tendency to fall had worsened in April and May, the bank

said, so it was raising rates. Clearly, the crown has investors to return to the Emu-zone from safe haven

the talk yesterday was of German rate rises, the main movement in the money up to 5 basis points, as traders priced in a stronger chance that the Bank of England might raise interest rates after its two-day monetary policy committee meeting starting today.

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-0.0725 318 - 439
-0.0265 546 - 573
-0.0264 399 - 455
-0.1016 668 - 712
-27.87 940 - 399
-0.5814 970 - 399
-0.5814 910 - 147
-0.1061 028 - 210
-3.073 933 - 300
-2.518 553 - 778
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Sami prost. Swelling letter instantial 12.9198 66.2580 8.1579 221.880 6.1537 3.0302 65.3660 6.2536 2.5467 8.4415 2262.79 55.8408 64.2530 214.785 6.2189 3.0199 66.8460 6.2037 2.6209 8.52 204.485 6.4853 3.048 71.2254 6.1669 2.6093 8.8543 117,1 97,4 6.9 -6.9 -1.4 -9.1 1.2 0.9 -6.2 -0.2 -18.5 65 -6.1 -1.3 -9.3 0.9 0.7 -5.5 CROSS RATES AND DERIVATIVES

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-0.202 350 - 810
-0.085 558 - 618
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EXCHANGE CROSS RATES 5.463 20.13 2.954 10.89 3.960 12.38 1.127 4.152 2.852 10.44 0.114 0.421 1 3.686 2.719 10 1.100 4.056 1.327 4.891 1.346 4.962 3.313 12.21 1.387 5.113 1.997 7.381 1.516 5.587 2.222 8.188 3.938 2.129 2.422 0.812 2.042 0.721 1.956 0.793 0.957 1.888 0.970 2.389 1 1.440 1.093 1.692 4.849 2.522 2.953 1 2.514 0.101 0.888 2.409 0.977 1.178 2.325 1.195 2.941 1.231 1.271 1.273 1.346 1.972 496.4. 258.4 305.3 102.4 257.4 10.38 90.87 246.6 100 120.5 238.0 122.3 901.1 126.1 137.8 201.9 20.86 11.28 12.83 4.301 10.83 0.436 10.36 4.201 5.057 10 5.139 12.65 5.296 7.624 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.762 5.7 4.058 2.194 2.496 0.837 2.104 0.085 0.743 2.075 0.817 0.986 1 2.461 1.030 1.484 1.1850 1.929 1.043 1.186 0.398 1 0.040 0.353 0.958 0.353 0.469 0.925 0.475 1.170 0.490 0.753 0.535 0.535 4754 2587 2943 986.5 2480 100 875.7 2576 963.7 1162 2292 1215 1749 1328 1946 411.5 222.6 253.2 84.88 213.4 8.694.4 75.35 204.4 82.92 100 197.4 101.4 249.7 104.5 150.5 150.5 150.5 Open let. 125,508 3,777 119 341,966 0,784242 19449 187,491 201,943 7,51710 6,60831 5,92201 1,97097 2,22082 40,6559 13,8687 -1.053 -0.001207 -3.15 -0.214 -0.323 -0.01551 -0.0108 -0.00323 -0.00353 -0.0072 -0.0232 4.07 1.22 0.34 0.12 0.06 0.03 0.01 0.01 0.01 0.00 Open 92,580 92,760 92,950 93,180 93,370 Sett price 92.570 92.720 92.900 93.110 93.320 -0.020 -0.030 -0.040 -0.050 -0.050 92,580 92,760 92,950 93,180 93,370 92,560 92,710 92,890 93,100 93,300 454,521 438,953 353,463 BASE LENDING RATES Exelor Trust Limited 8.25
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MINISTÈRE DE L'ÉCONOMIE

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## IPE calls for CO<sub>2</sub> emission permit trading |Oil weakens

The International Petroleum Exchange in London vesterday unveiled proposals to develop trading in carbon

dioxide emission permits. The IPE submitted its response to last year's Kyoto summit on climate change. which agreed on the principle of market-based solutions to combat pollution, to the UK government and the European Commission.

it called on the govern-

slop to other EU member states as the value of permits become standardised and agreement is reached on the allocation of targets. "There's a good chance

that emissions trading is going to become very important in the years ahead, providing Kyoto works and governments are prepared to put into effect the necessary legislation," said Lynton Jones, IPE chief executive.

tion process before free markets were allowed to evolve. Mr Jones said the market, properly monitored and

enforced, would be the most cost-effective and flexible way of reducing pollution. He added that top-down regulatory approaches such as taxation would be heavy-handed "Not all companies can effect the same sort of reduction at the same

permits for. Those that cut back on carbon dioxide with energy efficiency measures could sell or lease their surplus permits to those who could not cover the value of

their emissions. In Kyoto, the European Union agreed to reduce greenhouse gas, of which carbon dioxide accounts for 80 per cent, by 8 per cent against a baseline of 1990

the subsequent increase in the price of pollution.

evolve. First, there would be a primary market of bilateral deals between individual companies. There would also be a secondary market to provide additional flexibility to all participants, to assist in credit management and to provide greater transparency and liquidity.

valid for a mouth.

Mr Jones said the IPE's Mr Jones said he expected experience in developing two separate markets to competitive markets and in running traded energy and enabled it to play a significent role in monitoring and auditing the markets to ensure balance between held. It would also auction unallocated permits to new market entrants.

## Europe by introducing legislation for a national market and lobying for its extenof more cuts

MARKETS REPORT By Robert Corzins, Kenneth oding and Gary Mead

Oil prices weakened as speculation receded that the largest in Europe, had leading oil exporters were about to launch a new round

of production cuts. The price of Brent Blend for June delivery, the bellwether futures contract on London's International Petroleum Exchange, was down 33 cents in late trading

to \$14.80 a barrel Prices had been boosted last week by suggestions that big exporters such as Saudi Arabia, Venezuela and Mexico might meet to discuss an additional round of production cuts following a co-ordinated global reduction in March.

Last Friday's 64 cent rally in Brent was based on speculation that such a meeting might occur over the weekend. Traders said yesterday's price fall was triggered when it became clear no early

meeting was likely. stabilise crude prices. John Browne, chief executive of British Petroleum, yesterday said there is still "too much production at the moment". BP estimates that 1.3m barrels a day has come out of the market as a result of for investment funds partly Browne said a further cut of 500,000 b/d might be needed to balance the market.

On the London Metal Exchange lead and zinc reacted in late trading to an announcement by Cominco in Canada that mechanical failure in an oxygen plant would put its Trail smeltingrefining complex out of action for six days and cost

co's difficulties were halanced by news from Arcon. an Irish company, that a three-month strike at its Galmoy lead-zinc mine, one of been settled and work would start again in six days.

Lead for delivery in three months closed up \$5 a tonne, or less than 1 per cent, from Priday's close, at \$566, while three-month zinc was up \$15 a tonne, to \$1,125.

On the bullion market gold held above \$300 a troy ounce in London after falling heavily in New York at the end of last week. Traders suggested options grantors were trying to push the price down ahead of the Comex options expiry on Friday.

Trading in soft commodities on the London International Financial Futures Exchange was remarkable only for the small volumes Just 1,788 cocoa lots changed hands, with overall volume for coffee at 5,102 lots.

The July future for cocoa ended at £1.092 a tonne, Many oil traders and unchanged from the previindustry executives believe ous close. However, there further action is needed to was more activity in coffee where the July contract ended \$61 higher at \$1,851 a tonne, a strong recovery from the April 23 slide, when investment fund-led selling induced an 8 per cent fall.

Coffee regained its interes the co-ordinated cut, but Mr as a result of bullish figures from the International Coffee Organisation, showing members' exports at 73.8m 60kg bags in the 12 months to March, against 81.87m

bags a year earlier. Brazilian scare-mongering about frost also contributed to the reinvigorated buying, but analysis from GNI pointed out that while frost is now technically possible. the output of 2,000 tonnes of it has never been seen in lead and 2,500 tonnes of zinc. Brazil before the end of May.

1-25-

## Indian cotton growers take crop forecasters to task

Estimates of a bumper harvest led mills to reduce inventories but a late monsoon confounded their expectations, writes Kunal Bose

has again been hit by a "series of errors" in the cur- will end the season with ingly difficult to compete rent season's cotton crop forecasts. The industry is calling for a review of the

forecasting system. The estimate of the 1997-98 crop (October to September) has been revised downwards from the one made at the beginning of the season, of 17.2m bales of 170kg of cotton, to 14.8m bales. The latest estimate is also subject to further revision.

The East India Cotton Mills Association said: "The forecast of a bumper crop in September last, coming on top of a record crop of 17.79m bales in 1996-97, led most mills to run down their inventories of cotton.

"The federal government." anticipating a collapse in cotton prices, introduced a cotton export quota of 720,000 bales early in the season. But all the calculations have proved wrong, and the country may now finally end up with a crop as low as

While the crop failure has lifted cotton prices by 17 per high, they cannot mark up 1997 and unseasonal rain in season's 3.1m bales.

he Indian textile indus- cent since October - the rise the prices of yarn and fabtry, which is the coun- is even greater in the case of rics because of the recession try's biggest employer, the highest quality extra in the Indian economy. long varietles - the mills imports of more than 500,000 with textile producing counbales, compared with 30,000

bales last time. Industry analysts say a the long term, domestic

they are selling cotton at a big discount over the world prices. But in the process, the highly export-oriented lost a major advantage," said of Indo-Count Industries, a

"Except for the factories prices supported exports."

large portion of the cotton results of Indian textile export quota will remain groups in 1997-98 will be unused because domestic highly disappointing," said prices are still high. Over Mr Jain. prices are almost in line with world prices.

"The Indian farmers are no longer complaining that the three north Indian states Indian textile industry has Anil Jain, managing director cotton yarn spinning group.

set up in the past decade, the productivity of the industry here does not compare well with its counterparts in south and south-east Asia. Comparatively low cotton

"We are finding it increascurrencies have undergone major depreciations. The

Worst hit are mills that require superior varieties of cotton.

"Setbacks in production in of Punjab. Harvana and Rajasthan and in Andhra Pradesh and Karnataka in the south caused a big shortfall in the supply of good quality cotton," said the EICMA spokesman. "The industry is importing

cotton from the US. Mediumlong staple cotton is being imported from Russia and Australia." Industry officials are

that while cotton prices are arrival of the monsoon in bales, compared with last

Hay Jul Sup Dec Hay Total

May Jul Ang Sep Nov Jan Total

**GRAINS AND OIL SEEDS** 

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PULP AND PAPER

All futures data supplied by CMS.

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Tea from the Tea Brokers' Association

Lauded: Selective demand. Engine to: Lauded: Selective demand. Engine to: Burndis sold well but prices were generally lower, apart from a few selected lines which held firm. Medium East Africans were up to 15 pence easier where sold white Central Africans were neglected. Off-

shons: A few coloury nonyers soos as easier rates but the majority of offerings were neglected. Proc indications (previous sale in brackets); best available 150p (186p), good 140p (160p), good medium 115p (140p), medium 100p (120p), low

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632.50 +5.25 653.00 645.50 5.902 8,055 643.25 -5.75 648.75 641.00 29.570 73.061 646.00 +6.25 645.50 640.00 1,364 14,095 632.00 +5.00 632.00 625.00 432 3,761 636.00 +6.75 635.50 618.00 8,615 44,660 633.00 +5.50 633.00 627.00 280 2,459

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WRIEAT LIFFE (100 townes: £ per towne)

large amounts of Giza 86

variety from Egypt and Pima



November and December. and even later rains in some areas. As a result, some crops have suffered from disease. Maharashtra, the country's second largest surprised the crop cotton growing state, forecasting agencies failed to suffered the most. The crop Industry officials complain predict the impact of the late there is smaller than 1.5m

Indian farmers tend to switch land to a crop fetching high prices. son, we expect some addition to the 9m hectares now

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134.00 +5.10 135.00 129.15 524 1,360

248.0 +0.2 249.0 247.5 5.226 19,650 250.0 -0.5 251.1 249.7 984 11,263 255.7 +0.4 2555 255.0 379 1,463 262.0 +0.5 262.0 261.5 52 1,598 266.3 +0.8 266.0 265.9 12 512 270.2 +0.9 271.5 271.5 2 108

\$1.38 +0.88 \$3.55 \$2.05 14 26 \$4.72 +0.35 \$5.00 \$64.00 2.559 31.871 \$7.65 +0.20 \$67.00 \$104 3.845 \$7.00 \$4.00 \$2.559 \$1.871 \$7.00 \$104 3.845 \$7.00 \$4.00 \$1.50 \$7.00 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.

111.70 +8.45 112.20 167.75 367 2.343 115.35 +7.70 116.05 110.20 2.494 17.533 115.75 +500 116.75 115.75 328 5.429 118.80 +5.00 118.30 118.30 167 3.675 128.10 +5.00 120.10 120.10 10 15.71 122.45 +5.00 122.45 122.45 24 919

Open Interest and Volume data shows for contracts traded on COMEX, NYMEX, CBT, NYCE, CME, CSCE

and PE Crude Oil are one day in arreads. Volume &

May 1 month ago 1630.7 1657 6

Hay 1 month eyo 223.97 -

-1,325

+228 -875 -86

INDICES

**III Reuters (Base: 18/9/31 = 100)** 

**E 65Cl Soot (Base 1977) = 100**1

13 357 6,102 38,254

5 3,520 10 3,516

614,600 50,100 280,675 107,250

£ per laure micht wird

1766 1784

COFFEE LIFFE (5 tomes; \$7tomes)

III COFFEE \*C" CSCE (37,500lbs; cents/fbs)

WHITE SUGAR LIFFE (50 toxines, S/10mme)

## SUGAR "11" CSCE (112,000ths; cants/firs)

8.53 +0.04 8.63 8.42 5, 8.77 - 8.85 8.71 9.27 +0.01 9.33 9.22 9, 9.33 +0.01 9.33 9.22 9, 9.35 - 9.36 9.33 9.39 +0.05 8.42 8.39

May 4

Industry officials recom mend that the Cotton Advisory Board, which repre-"In view of the rise in cot- sents the interests of ton prices in the current sea- growers, trade and industry should make a study of the cotton crop monitoring sys-tem in the US, Australia and under the crop. But the size of the crop next time will in Israel, and to introduce more reliable forecasting practhe end be decided by the rain." said Mr Jain.

> Meat and Livestock JOTTER PAD III LAVE CATTILE CIME (40,000lbs; cents/bs)

		nel s				Upon
	Price	change	: High		Yel	int
<b>.</b>	68,800	-0.525	89.530	68,700	7,479	42,520
AO9				69.300	2,712	23,751
Oct			69.800		896	13,530
Des				70.200		4,849
Feb				71,300		1,499
Apr	72.200	-0.150	72.500		37	612
Total				1	1,406	36,762
					_	
	W ROES	CHE (4	U, SUULES	CERTIFIE	저	
		_		60.850		14,107
_	61.250 61.100	-0.225 -0.350	61.575 61.525	60.850 60.750	3,972 1,949	14,107 6,689
<u></u>	61.250 61.100 58.750	-0.225 -0.350 -0.400	61.575 61.525 59.250	60.850 60.750 58.400	3,972 1,949	
, , , , ,	61.250 61.100 58.750	-0.225 -0.350 -0.400	61.575 61.525	60.850 60.750 58.400	3,972 1,949	6,689
	61.250 61.100 58.750 54.200	-0.225 -0.350 -0.400 -0.250	61.575 61.525 59.250 54.450	60.850 60.750 58.400	3.972 1,949 1,323 232	6,669 4,346

59 775 -0.375 59.975 58 400 706 1.517

LONDON TRADED OPTIONS

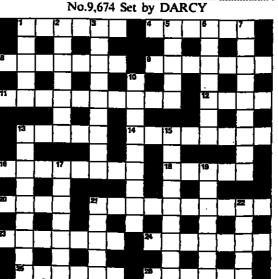
EGIADOR HEDE		,, ,,,,		
Striks price & tonne	<b>–</b> ₽	<b>-</b>	—P	ds
(99.7%) LME	JUR	Sep	Jun	Sep
1450	18	57	39	52
1500 ,	5	36	76	80
1550	ı	22	122	115
M COPPER				
(Grade A) LIME	Jun.	Sep	فريل	Sep
1700	175	181	5	34
1800	95	118	24	70
1900	40	72	68	121
	J#	Sep	16	Sap
1850	71	120	71	170
1900	53	109	103	209
1950	39	102	139	252
SE COCOA LIFTE	Jul.	Sep	Jul	Sep
1075	43	71	25	32
1100	31	57	38	43
1125	25	44	57	55
■ PASAT CRUCK PE	Jest	Jul .	Jun	44
1450	52		-	-
1500	22	-	-	-
1550	-	-	-	-

**LONDON SPOT MARKETS** \$13.07-3.09x

S166-168 Bacton (Jost) Retrolement Argust. Tel 1171) 350 ET92 **■** 071€22 Gold (per troy ca) & Sibrer (per troy ca) & Pathriam (per troy ca) Pathriam (per troy ca)

Capper Lead (US prod.) Tro (Yusia Lumpur) Tin (New York) 89.fic 45.90c 21.29r 278.5 85.70p 121.52p 68.48p Pigs (live weight) Lon. day soger (raw) Unq 20,000 Unq 47.75p 297.50m 710.0y 675.0 \$410.0y 177.0 Coconet (N (Philips Palm Oil (Naisy.)\$ Copea (Philips Soyabeans (LS) Cotton Catlook A' Index Woollops (S4s Super)

CROSSWORD



Carefully selecting house,

8, 5 down Maybe naive, rejected non-alcoholic 9, 18 Be re-elected, possess

ing great stamina (7.5)
11 I try to sneak my deliveries past strikers - not on at 15 One's quoted as being first (3-7) 12 Gaze with love, ignoring all outsiders? It's the sea (4)

13. 23 Trimester studying some classics, maybe in part of Paris (5.7)

14 Same boards scheme with ruling body (8)

16 Such secretion is mostly unintelligible (8)

20 It's a nuisance to make sure things are tied up (4) given nomination (6,4) 23 See 13 down 24 See 21 down

25 Reveal former attitude (6) 26 Indigestible material could be ghosted - that's not

DOWN 1, 10, 22 To unravel poisoner's crime, fetch fully qualified detective (5,9,5)

3 I can provide reams on Queen Victoria, maybe in advance (9) 5 See 8 across

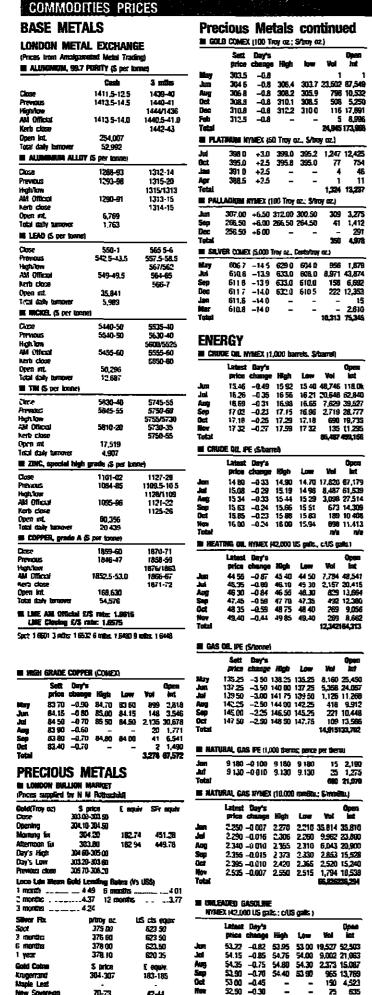
6 Take over the Jumbo in today's Times? (7) 7 Late drink reading tabloid? A distressing experience (9) 10 See 1 down

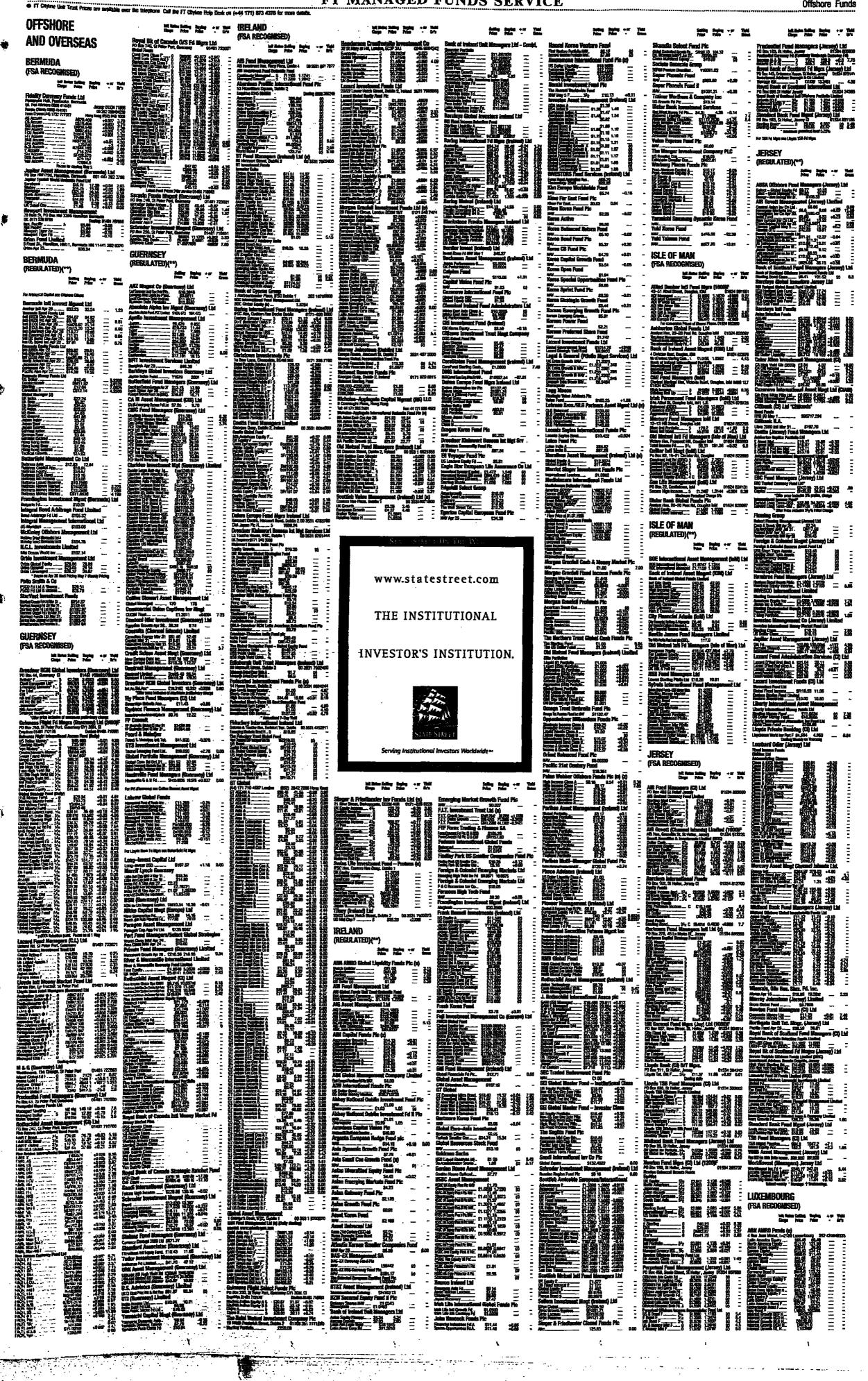
upset with Shaw's play (9) Rough 5 down drawn for audience, to cause tears

19 Got round wife, and went fishing (7) 21, 24 across Urge the Tale. for example, to provide area for correspondents

22 See 1 down Solution 9,673





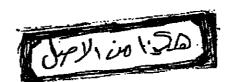


28

12

Thakkee: Over a Be is this said the set of t

lak Nyton Delling Styring + or 'ficial Corpo Prica Prica - Gris	let listes Stilling Enging +or field Clays Arlan Prica - (Ar)	ind mates Stelling Stepling - or 'Yelf' Chape Patter Patter - Ch'	jak kejan Soldey Beging + or Yibik Clayer Palca Palca - Grb	Subley Surjey + or "Subl Price Price - Greek	Saling Brying out 'Table Police Pales - Count.	Spilling Bryling - of Third Price Price - Don't Courter Conversation - CONTAL	Fredholie Ute (International)
Abstractions Found Minury (Lourenthoury) List (n.)  4 Bindered Reve I, 2446 Lourenthoury 05 35: 27/001  Authority for Professory 05 35: 27/001  Authority for Professory 05 35: 27/001  Authority for Professory 05 34: 40  Cartiery for Minury 10 10 11 11 11 11 11 11 11 11 11 11 11	sing Group - Contal.  19 Republy Series II paley builded  19 Republy Series II paley builded  19 Republy Series II paley builded  19 Feb. 19 F	Committee   Comm	ACM Offschore Formus - Control.  Cases - Des	25 Seri 16 Lind 1 Ser. Strick on	Comment   Control Provides   Control Provides   Control Cont	Smiss Ramic Corporation - Cortic.  Inter-161   Scand 27   Scand 27	### 19. SE ESPITA, SE PRESP P. Cary    Secretary   Company   Compa
Seria Fore State Comp. Seria. 1	170 GSF tentin	Freeding Made Date 1	Panis State (15) Birt	Drescher RCM Europeas Road Food  European New Co. 13.45 — —  Egypt Treat. — —  Egypt Treat. — —  Status New Yes 22 — — Status Food Status Food New Yes 23 — —  The European Asset Valve Food Status Food New Yes 24 — — — — — — — — — — — — — — — — — —	Com    Come A-1 Mer 1	Processor Processor Reservations Continued Transport Continues Con	
CBI Achel Minasparament (Innominours) SA  195 and or Avian, 1—3010 Servere Luc 10 SC 217/611  195 and or Avian, 1—3010 Servere Luc 10 SC 217/611  SC 10 Servere Luc 10 SC 217/611  SC S	Company   Comp	1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985	Book	FYF I final section in the property of the pro	Could Protein St. 22	Supplemental Control of the Control	Labor William (1994) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Common   C	20   20   10   10   10   10   10   10	of mate de Trevens I - 2555 Lamentoning () + 455 3 Notified () 1 Notifie	The Architecture Frant. 945.71  Allestates Sicrey	Foreign & Colonials Essenying Hartests 11d in the propher of the p	Valleard (SP	World Lowest SIGAN  world twent Signa (SP)  world twent Signa (SP)  world twent Signa (SP)  world twent Signa (SP)  strick leads (SP)  strick lead	Total   Tota
Commercial Guide Phichigan Particles   Suph French	gain gain gain gain gain gain gain gain	incine Finche bank bz., i SP-C29 in CER9 in CE	Section   Sect	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	Tourness Condent (1987) 48 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	International Color   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120   12-120	International Continues   31.775   63   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.15   1.
Cartesta Agricultus (19000000000000000000000000000000000000	Color   Colo	### 1	Initial Brown ISSD 6	Microsoft Content   Section   Sect	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	white designation   150,00   171,1   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17   1,17	Semanticle Fixed Intents. 20 707 1 1021 - Con Habites, 15 97 - Col. 24 1004 - Con Habites, 15 97 - Col. 24 1004 - Con Habites, 15 97 - Col. 24 1004 - Con Habites, 15 97 - Col. 24 1004 -
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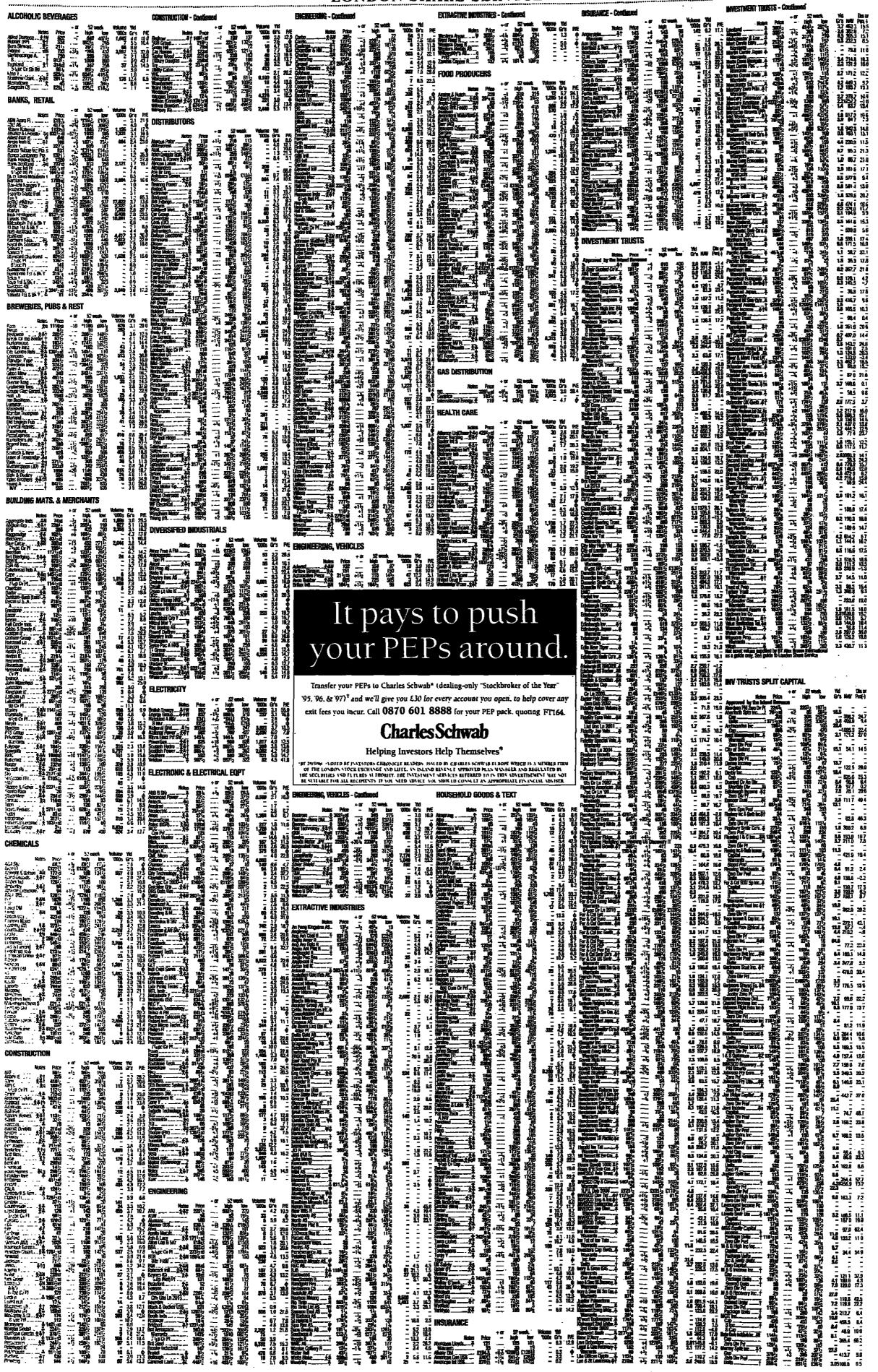
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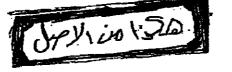
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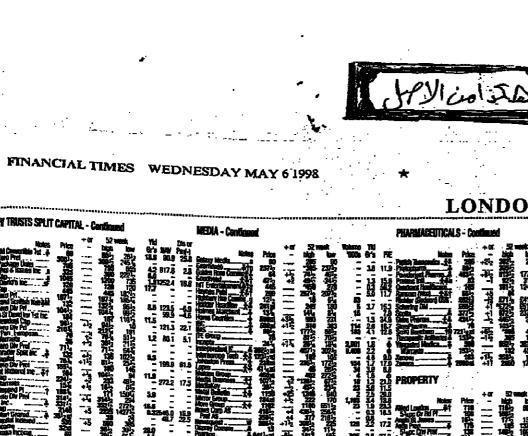
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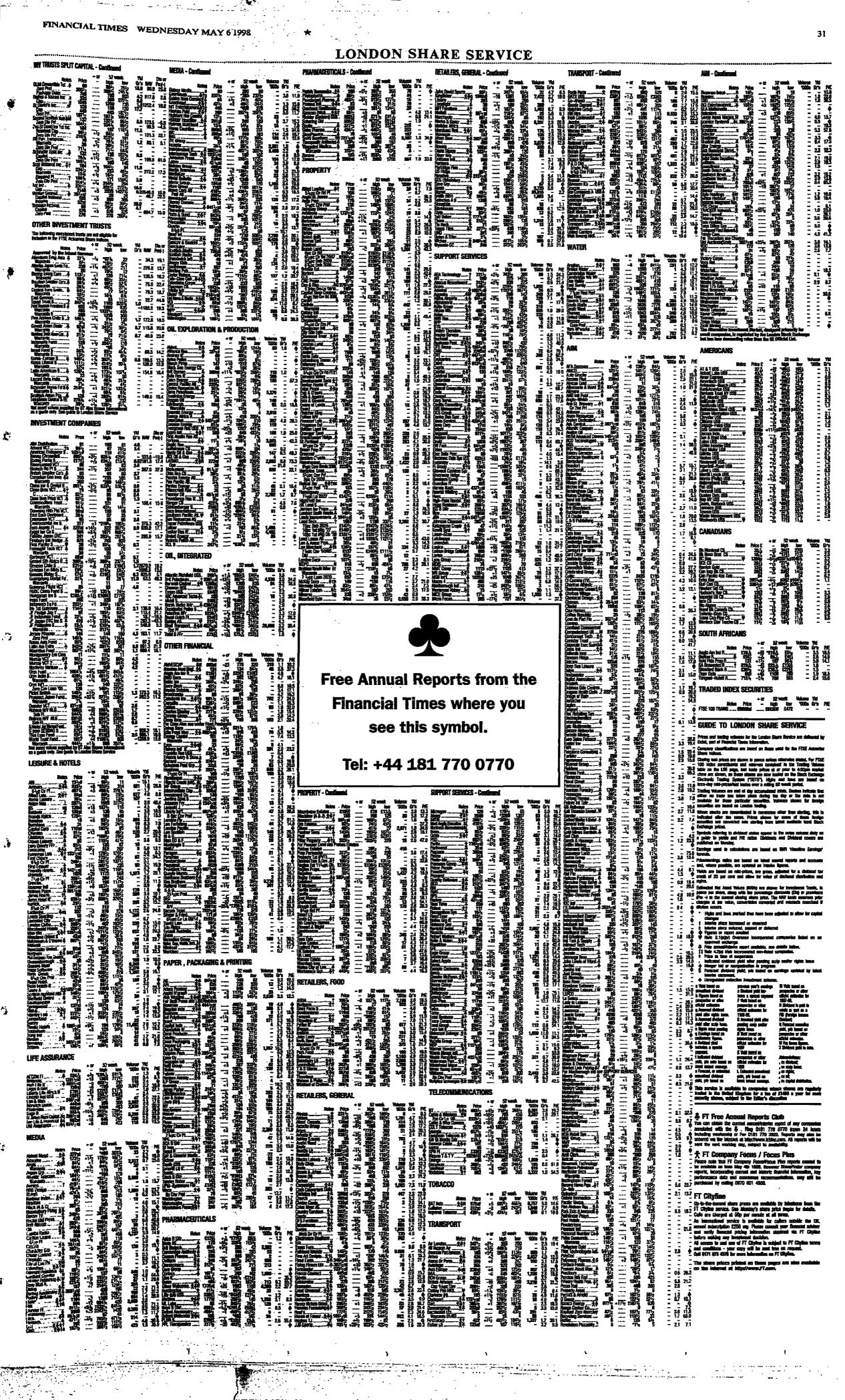
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Burningham for world talks.









## Footsie loses gains to slip back below 6,000

MARKET REPORT By Steve Thompson, UK Stock Market Editor

the 6,000 level yesterday, burdened by a poor opening

ling. After the frantic weekend leadership of the new Euro-European single currency -

currencies amid growing extended their recent SmallCap closed 8.4 firmer at was quickly eroded, the report: "While last week's expectations of interest rate rises across Europe.

Fears of such moves were triggered by the Danish The FTSE 100 lost its grip on authorities, who increased their rates, bringing an instant response from other performance by Wall Street European currencies, most and switching prompted by a notably the D-Mark, against significant decline in ster- which sterling dipped around 2 pigs.
The turbulence surround-

activity surrounding the ing the leaders never came near to disturbing the seemingly relentless advances by establishment of the new the market's second-line stocks and small caps. The the euro - the pound fell FTSE indices representing

unsurges to fresh peaks. Hampered by another

sequence of four straight the London market's benchmark index.

There were no such uncertainties surrounding the FTSE 250 and SmallCap. The former raced up again to hit a new intra-day record of 5,682.4 before finishing the day 29.3 ahead at a closing high of 5,682.3. The FTSE

a peak 2,665.3.

burst of persistent selling stocks was in sharp contrast never regaining its early across the financial sectors to the opening performance of the market, the FTSE 100 of the market, which saw the ended an erratic session 23.8 FTSE 100 kick off in great lower at 5,986.5, halting a shape and advance to a session high of 6,064.6, up 54.3, winning performances by during the first flush of 'euro effect".

Sentiment was additionally enhanced by Wall Street's excellent showings on Friday evening and Monday, when the Dow Jones Industrial Average pushed ahead to a record close. But the bullish sentiment

Footsie slipping within an Weakness in the front-line hour of the opening and

Downside damage to the market was once again focused on the banking sector, where the big mortgage lenders were hit by signifiexcitement prompted by the cant selling linked to the perceived fierce competition in the sector. Alliance & Leicester and the Halifax were prominent among the worst performers in the Footste.

The strategy team at Credit Suisse First Boston said in their latest strategy

further to fall. Psion, which

has fallen 40 per cent since

Shares linked to the

strength of sterling were the

focus of attention as the pound weakened against

both the D-Mark and the dol-

lar. Their good performance

powered the FTSE 250 as it

outperformed the Footsie

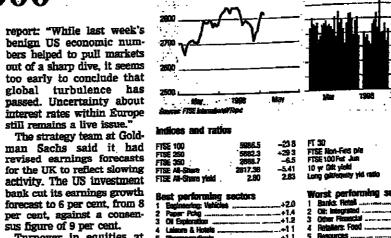
Foremost among the gain-

times earnings.

February, rose 131/4 to 286p.

global passed. Uncertainty about interest rates within Europe still remains a live issue

The strategy team at Goldman Sachs said it had for the UK to reflect slowing activity. The US investment bank cut its earnings growth forecast to 6 per cent. from 8 sus figure of 9 per cent. Turnover in equities at 6pm was 837.2m.



FTSE All-Share index

#### **A&Loff** ahead of meeting

**COMPANIES REPORT** By Peter John and Martin Brice

Banking stocks were heavily sold and, as one of the biggest groups of the Footsie, were responsible for leading the market lower.

The main thrust of the weakness came from the tional businesses. They relentless rise, mortgage lenders ahead of the annual meeting from Alliance & Leicester. which was scheduled for 7pm last night to accommodate small sbareholders.

The shares fell 57's to 832' p, a slide of 6.5 per cent and the biggest percentage drop among the 350 biggest stocks in London. However. ness of the fall reflected a big late rise on Friday, possibly because of an errant

The meeting, to be held just outside Leicester, follows reports over the past fortnight from Abbey National and Halifax, which both spoke of tough conditions in the market. Balifax shed 18 to 782p and Woolwich was off 13% to 334%p.

HSBC was hit by big falls in far eastern markets that have been affected by civil unrest. The stock, which is also a very big constituent of the Hang Seng index, fell 73

Bank of Scotland lost 14 to pointed out that Houston 961p in front of tomorrow's

PowerGen was the best Footsie performer for much of yesterday following weekend press reports of a potential merger with Houston Industries of the US.

Shares in the UK's second-33 at best, but ended a net 18 higher at 825p, while rival National Power was steady at 582p. Shares in Houston and PowerGen rose in New up with PowerGe York trade on Monday.

Analysts said there was Energy eased 1% evident synergy in terms of both companies' interna- ogy sub-sector o

has projects in Latin America where PowerGen has nothing and PowerGen has projects in parts of the Pacific where Houston has nothing. However, there were doubts about the benefits to the core busines

Neither PowerGen nor largest generator traded up Houston were prepared to comment but th on speculation that suggested F the US might be ing to secure En The informati

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May 5 May 1 Apr 30 Apr 29 Apr 28 Yr ago 114gh 3874.9 3872.8 3823.2 3752.7 3758.1 2932.9 3874.9 3884.2 282 283 2.86 2.91 2.93 3.75 4.22 2.83 25.15 25.08 24.78 24.34 24.21 17.68 25.08 15.80 24.93 24.23 24.23 24.85 24.12 23.99 17.50 24.85 15.71 12 13

FT 30 hourly changes Opez 9 10 11 12 13 14 15 16 High Low 3872.9 3811.9 3882.0 3873.5 3873.9 3870.0 3871.7 3870.6 3870.4 3914.3 3894.2

	May 5	May 1	Apr 30	Apr 29	Apr 28	Yr ago
SEAC hargains	63,152	61,517	67,925	56,191	63,778	53,68
Equity turnover (Ent)†	-	na.	RB	2535.7	2890.2	2551
Equity bargainst	-	122	na	49,477	50.214	56,12
Shares traded (m)†	-	ma ma	re.	694.1	820.4	721,
Total market bargeins‡	-	98	70,036	54,717	61,306	п
Total turnover (Emit	-	ne ne	4771.4	3482.2	3779.8	1
Total sins traded (m)#	<b>-837.2</b>	na.	1060.9	906.1	1008.3	7
Tradepoint termover (Em)	86.5	31.6	33.4	17.4	22.0	1.
Tradepoint stas traded	15.218	8.018	7.260	5.385	5,915	44



shares focused nch by Merrill monthly news-55 to £16.60.

lcock at the broker told clients: "The 46 per cent rise in London's IT index since its creation in January has split investor opinions: they are either terrified or electrified." He said that although the ers was British Steel, the

forward price/earnings ratio most-heavily geared play on for the index stands at about sterling, which rose 5½ to 167%p. However, the best 40, investors should be over-Footsie performer was Blue weight IT shares. He also Circle, which recovered from said the high rating enjoyed recent underperformance as by such shares could lead to London becoming a magnet it rose 15 to 380p. for flotations.

One of the prime movers LucasVarity up behind the surge in IT stocks LucasVarity was partly has been spending by the financial services industry. one of the largest areas of the UK economy. "We would argue that UK objective for the shares from

IT shares deserve a higher 270p to 310p. rating relative to their home market than comparable stocks in America or on mainland Europe," said Mr Woolcock.

However, he said Microsoft was exerting pressure on Psion, and its shares had

RMI failed to benefit from a wealth of weekend press stories about possible bidders for the music publisher. With the absence of any news vesterday the stock drifted lower.

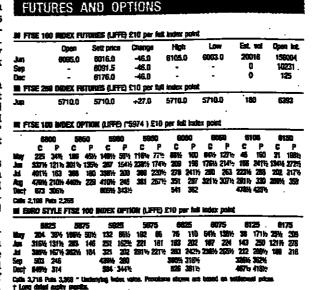
Some traders suggested a bid would be made first thing this morning and would come in at around 800p a share. But the shares slide of 12 to 588p did not suggest imminent activity. Most Sunday newspapers ran reports on EMI, which on Friday confirmed it had been approached by a potential suitor, widely supposed

to be Seagram. One said Carlton Communications was considering an offer although it would have problems mounting a bid with a market value of £3.1bn compared to the £6bn EMI is expected to fetch. Another said EMI was considering a 11hn disposal o its music publishing busi ness to fend of a would-be

hostile bidder. However, most agreed that Seagram of the US was the most likely contender even if it might not yet be offering enough to satisfy EMI share holders. Cariton closed 2 of

at 518o. Newcomer JWE Telecom helped by comment from which distributes and Merrill Lynch, which repairs telephone handsets increased its 12-month price and was placed at 103p. opened at 117p and rose to

Adam Collins at the bro-Top-of-the-range firstker said the bid by Dana of quarter profits from BP the US for American car failed to help the shares, parts maker Echlin was at 11 which languished 131/2 lower times earnings while Lucas- at 936. SG Securities has Varity stock stood at just 7.2 shaded its full-year profit forecast to just below £2.3bn He said Lucas Varity's which is £500m below last



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trees price- p	Amt paid 19	1864. cap (510.)	16 High	ion Ton	Stock	Closs price P	*		Div. (		淮
	F.P.	25.4	103%		AB Aldines	95/7		-	-	-	_
575	FP.	365.3	990		ANK.	820		-	-	-	•
ş	F.P.	=	1011/2		Aberdeen Cavable C			-		-	•
<b>"100</b>	FP.	35,7	102		Advent 2 VCT	102		-	-	-	•
4	F.P.	1.01	5		(Captorn C.M. Walt	5 5		-	-	-	•
·-	F.P.	0.04	1		(Ce Warrants			-	-	-	•
-	F.P.	_ =	100		Close Bris All VCI			-	-	-	•
	F.P.	71.9	152		†Desire Petraham	152	+5%	-	-	-	•
-	F.P.		20		GRE Red Pol B	. 25		-	-		٠.
-	F.P.	3.94	34		i Paritusi	24		-	-	-	
_•	F.P.	20.7			2MESCO 644 (Julys	1116		-	-	-	٠.
•	FP.	13.7	104.		Do Zero Dir Pri	103%			-	-	•
	F.P.	20.3	1(1%		Do 8.5% Cav 2005	109%		08%%		7.8	
§103	FP.	24.2	125		JMF, Telecom	. 125		MT.54	3.0	15	
-	FP.	1580	3316		ш.	3291		L47	25	1.8	ħ.
100	F.P.	39,0	97%		Mante VCT 3	977				-	_:
-	F.P.	45.8	250		(Spice's	2341		125	62	1.3	15.
-	FP.	113.7	329%		Orderi Oper	3057				<u>-</u> -	-
•	F.P.	18,0	92%		Complex VCT 2	90	_	124	-	33	-
-	F.P.	-	35%		Transport Dev B	36	+71	-	-	-	-
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first-quarter sales had been year's reported figure. strong, while an analyst visit The shares were not helped by the underlying oil to its award-winning US brakes operations in June price, which was down about 30 cents in London trading. could produce positive news-**SE Replaced Indices** flow. The shares gained 61/4 Shell Transport, which 1344.23 -4.3 1404.35 1724.88 reports tomorrow and which 1499.20 -1.4 1620.12 1792.51 1215.22 0.0 1215.41 1394.39 In the FTSE 250, Glynwed is less exposed to oil prices, International rose 17 to 321p, was firmer, slipping only 2% Captat. FE biomaintal balled 198. As fights stanced. Roses in tendeds thus number of captat. FE biomaintal balled 198. As fights stanced Roses in tendeds the manufacture of the collection of the collectio while TI Group gained 14 to to 452%p on very heavy turnover of 29m shares. The UK Series FTSE Actuaries Share Indices PAE katasija, Tokal saalo ylat Respero 22.14 61.80 2612.25 21.08 52.48 2429.65 19.92 54.60 2451.36 -0.4 +0.5 +0.5

FTSE 250 ex IT	5734.6			5853.4		2.95	2.49	213			
FTSE 350	2888.7	-02		2859.1	2203.3	279	2.36	2.04			
FTSE 358 es IT FTSE 358 Higher Yield	2693.4 2652.8			2563.9		281	2.37	2.05			
FISE 350 Lower York	2832.8 2940.2			2823.0 2910.5		3.70	3.16	1,95			
FTSE SmallCan	2955.32					2.10	1.75	2.15			
		+0.3	2656.93		2301.16	2.86	231	1.58			2311.93
FISE SateliCap ez IT FISE All-State	2690.92	+0.3 -0.2	2651.25	2643.05		3.06	2,47	1.64			2331.26
FTSE AS-Share ox IT	2617.36			2788.99		2.80	235	2.01			
	2824.43	-0-2	صعد	2796.11	-	282	2.38	2.03	21.85	28.55	1314.70
FTSE Actuaries Industry	Sectors										
-		Day's			Y62	Gross.	Hel		PÆ	ᄷᇎ	Total
	May 5	chge%	¥ay 1	Apr 36	ago	yield's.	yet/%	CONTR	2260	yid	Return
10 BESOURCES(21)	4903.58	-0.8	4943.77	4873.84	4195.32	3.09	267	1.72	23.54	61.16	2249.85
12 Extractive Industries(5)	3393.55	_	3394.45	3382.98	4197,82	4.02	3.70	2.07	15.02	76.82	1071.07
15 OE, integralad(4)	5473.00	-1.1	5533.42	5446.67	4339.27	3.08	2.63	1.64	24.71	62.01	2581.36
16 Oil Explosation & Prod(12)	3234.53	+1.2	3196.46	3183.63	3455.79	1.77	1.46	1.98	35.77	31.12	2006.99
20 CEN MIDISTRIALS(220)	2337.92	+0.7	2321.45	2300.63	1966.52	3.38	294	2.06	18,00	25.96	1371.00
21 Construction(38)	1847.33	-8.2	1650.00	1643.06	1387.98	295	240	2.62	16.15		1371.00 1468.90
22 Building Matis & Mercha(27)	1949.26	+0.9	1931.45	1903.95	1900.64	3.83	3.26	2.03	16.08	17.87 29.45	1466.00
23 Chemicals(24)	2995.82	+0.5	2979.58	2983.23	2254.70	3.13	292	1.89	21.84	30.75	1526.23
24 Oversified industrials(10)	1484.24	-0.6	1483.25	1490.82	1511.03	3.13	3.55	225	14.65	20.65	912.11
25 Bectronic & Bect Found(26)	2670.52	-0.3	2678.72	2678.73	2104.69	123	2.52	1.62	23.87	20.55	1471.11
25 Engineering(62)	3161.47	+1.1	3128.39	3093.R3	2520.28	3.54	311	1.96	17.98	36.49	2037.73
27 Engineering, Vehicles(10)	4500.46	+20	4414.21	4349.57	2749.30	1.98	1.81	3.30	19.10	27.83	2472.19
28 Paper, Pcky & Printing(23)	2364.82	+1.4	2332.47	2293.10	2326.38	4.31	3.62	2.23	13.01	29,40	1064.58
30 CONSUMER GOODS(92)											
32 Alcoholic Beverages(5)	5828.68	+0.5	5799.71	5717.58	4366.97	2.51	225	1.83	27.23	68.88	2304.28
32 Food Producens(25)	4118.57 4150.89	+0.2 -0.4	411246	4017.54	2971.13	2.83	2.80	-1.87	23.55	65.46	1609.11
34 Household Goods & Texts(24)	3892 22	-0.7	4168.63 3617.12	4061.08 3534.14	2908.32 2985.21	2.61 2.05	223	. 1,95 2,20	24.50	45.13	2010.49
36 Health Care(14)	2308.04	-0.7 -0.5	2318.56	2295.37	2219.46	3.US 2.20	2.72	2.40	18.65 23.72	40.14	1511.29
37 Pharmiceuticals(20)	9719.80	+1.1	2319.30 9618.09	2253.37 9545.88	7049.22	2.20 1.89	1.98 1.57	1.70	23.72 38.86	14.69 95.15	1469.79
38 Yobacco(3)	4809.84	+0.7	4777.93	4722.45	4443.93	5.34	4.72	1.75		121.61	3478.54
							_	-			1343.79
40 SERVICES(ZZ7)	3447.36	-8.2	3453,71	3419.50	2666.80	2.46	2.00	1.98	25.65	19.43	1889.37
41 Distributors(25)	2239.80	+0.4	2926.81	2926.70	2730.A7	3.25	2.66	1.99	19.32	33.42	1153.79
42 Leisure & Hotels(26) 43 Media(41)	4002.69 4482.27	+1,1	3960.50 4479.88	3901.94 4481.85	3410.28	251	200	2.39	20.91	51.40	2266.86
44 Retailers, Food(13)	446 <u>2-2</u> 7 2991,25	-u.4 -1.0	94/8.85 3020.12	2960.26	4352.18 2047.75	2.30 2.89	1.94	218	24.89	4546	1688.94
45 Retailers, General(48)	2411.14	-0.4	2421.88	2411.58	2047.75 2198.66	2.69 3.02	2.51 2.44	2.19 2.15	19.79 19.22	20.47	2026.46
46 Telecommunications 70	3874.88	-0.3	3887.97	3806.09	2319.01	227	1.84	1.51	36.49	11.95	1459.34
47 Browning, Patra & Regt.(24)	4332.32	-0.1	4335.67	4277.70	3322.38	273	2.18	2.40		4.04 16.19	1884.10
48 Sepport Services(S2)	4859.06	+0.5	4834.57	4811,81	2024.27	1.22	1.03	2.58	39.60	16.8T	2198.58
49 Trausport(25)	3623.92	-0.3	3633.19	3617.07	2773.22	2.84	2.32	1.31	33.68	25.93	3195.36
SO UTILITIES(23)	3884.55	+0.2	3858.97	3831.14				_		_	161 <u>0.</u> 15
62. Bectricity(9)	4404.45	+0.2	38562/ 4378.86	3831,14 4337,12	2754.00	4.02	3.22	1,87	16.62	14,30	1826.30
64 Bas Distribution(2)	2894.97	+0.2	49/ 0.00 2880.50	4337.12 2841.68	2973.85 1554.29	423 225	3.39	217	13.61	7.28	2541.12
68 Water(12)	3310.93	+02 -06	3332.16		1554.39 2538.62		1.83	‡		26.03	1673.21
				3353.88		5.16	4.13	220	11.01	<u> 10.28</u>	2010.97
69 NON-FINANCIALS(833)	2529.58	+0.1	2827,22	<u> 2795.85</u>	2197.18	2.82	2.39	1.92	23_16	24.82	2297.75
70 FRIANCIALS(109)	5832.85	-1.0	5892.13	5607.58	4159.09	2.83	2.33	235	18.74	_	2604.68
71 Banka, Retali(12)	8134,84	-1.3	8240.52		6181.44	2.90	232	220	18.58		2850.64
73 Insurance(17)	2831.74			2552.81	1798.64	3.23	292	283		36.48	2187.06
74 Life Assurance(6)	7207.62			7109.13	4900.26	261	225	2.60	18.44		3220.55
77 Other Financial(26)	<i>5037.7</i> 9			<b>5030.80</b>	1205.02	2.17	178	224		56.10	3089.02
79 Property(48)	2377.21	<b>-0,</b> 1	2378.97	2378.43	1934.97	2.73	2.26	1.46	31.31		1551,89
80 PRIESTMENT TROSTS(116)	3964.45	+0.3	3953,07	3918.73	2342785	200	1.81	1.19		_	
89 FTSE All-Share(SSS)	2817.36				_			_		<u>22.93</u>	1440.78
105 FISE All-Share ex IT(742)					2167.26	2.80	2.36	201		29.13	2548.98
	2824.43			2786.11	<del></del> -	282	238	203	21.85	28.55	1314.70
Information Technology	1476.45			1451.21	_	0.58	0.47	3.31	64.71	2.B1	1479.53
FTSE Fledging	-1 <b>430.90</b>	+0.5			1300.81	3.04	245	1.42		11.51	1580.69
FTSE Fledging ex IT	1450.91	+0.6	1442.95	1434.40	1319.98	3.36	2.72	1.48		12.56	1606.68
FISE AN	1090.2	+0.6	1083.7	1085.1						_	
		70.0	.000.7	-000.1	-	1.12	0.89	0.47	100.08	3 49	1006 <u>.92</u>
- North monages											
## Hourly movements											

14.08 15.00 - 6047.0 6003.3 6965.7 5984.2 5997.0 5998.3 5680.8 5975.3 6064.5 5680.1 5671.8 5674.3 5578.8 5678.8 5678.9 5681.5 5681.5 5680.3 5582.4 2971.1 2694.3 2897.7 2887.5 2888.8 2693.1 2890.4 2884.2 2917.7 0,76 2661.57 2881.95 2882.28 2682.78 2683.43 2683.58 2684.24 2665.18 2685.33 2683.67 2883.51 2822.23 2818.21 2818.08 2817.11 2821.22 2618.77 2813.19 2843.67 FTSE 100 FTSE 250 FTSE 350 6064.5 5972.6 5682.4 5982.7 2917.7 2883.2 2685.33 2660.76 2843.67 2812.27 FIGS. (NO Day's light \$5015 Day's light \$5015 Day's lost 16(2020 FIRS 10) 1098 Right \$105.5 (RESAMS) Lost 3080.7 (12010.08 Time of FIRS AF-State Day's light \$4050 Day's lost 16(4000 FIRS AF-State Day's light \$407.10 (2004.09) Lost 3080.7 (12010.08



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980	1.6 24.7	ASSIN 179.7	-1 74.50 -8 448.50 -3 47.30	44 do 1.2 36 52 10 2.0 18 10789	3 BCH 3 BPopt 6 SSapki 7 CEPSA 7 Certin — CEsso	5,030a 12,580 8,090 10,270 5,820a 1,830 1,870	18070 610 230 7230 7230 7230 7230 7230 7230 7230	.400 .070 .290 .290 .200 .000 .625	1.530 1279 1573 7.010 3.445 5.860 1.425 1.300	121 194 177 111 145 173 183 183	25 90 90 90 90 90 90 90 90 90 90 90 90 90	Asics Asphyl Brokal Boyaft Tripata Reaths CSK Calpits Calque	132 2082 1,8552 1,7212 3,010 5002 2,7504 825
980 25.70 466 372 671 783 65.10 80.60	1.6 24.7 21 9.8 22 28.2 20 17.1 1.6 31.9 1.6 24.2 0.5 24.0	ASSIM 1 179.76 ASSI U 179.76 ASSI W 4250 ANGO N 4250 ANGO N 4250 ANGO N 4250 ANGO N 31.98 BONGO 31.98	-1 74.50 -8 448.50 -3 47.30	44 do 1.2 36 52 10 2.0 18 10789	3 BCH 3 BPopt 6 SSapki 7 CEPSA 7 Certin — CEsso	5,030a 12,580 8,090 10,270 5,820a 1,830 1,870	18070 1010 1230 1740 1750 1750 1750 1750 1750 1750 1750 175	5,400 5,290 5,439 1,240 1,200 1,000 1,500 1,500 1,500 1,500	127 9 127 9 1445 1425 1300 1510 125	121977 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178 14178	25 20 20 20 20 20 20 20 20 20 20 20 20 20	Asics Asphyl Brokal Boyaft Tripata Reaths CSK Calpits Calque	132 298d 1,855d 1,721xd 3,010 500xd 2,750xd 673xd 3,170 1,815
980 25.70 466 372 671 783 65.10 80.60	1.6 24.7 21 9.8 22 28.2 20 17.1 1.6 31.9 1.6 24.2 0.5 24.0	ASSIVE 179.77 ASSIVE 16 About 53.2 Alco N 4255 Alco N 4255 Beneck 31.9 Beneck 31.9 Beneck 31.9 Beneck 31.9 Beneck 31.9	-1 74.50 -8 448.50 -3 47.30	44 do 1.2 36 52 10 2.0 18 10789	3 BCH 3 BPopt 6 SSapki 7 CEPSA 7 Certin — CEsso	5,030a 12,580 8,090 10,270 5,820a 1,830 1,870	180700112987745515955	5,400 5,250 5,435 1,546 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	150 157 167 167 168 146 146 146 146 150 150 150 150 150 150 150 150 150 150	1204 1214 145 145 145 145 147 147 147 147 147 147 147 147 147 147	25 001 199 199 199 199 199 199 199 199 199	Asics Asphyl Brokal Boyaft Tripata Reaths CSK Calpits Calque	132 298d 1,855d 1,721xd 3,010 500xd 2,750xd 673xd 3,170 1,815
960 25.29 466 372 671 763 55.10 30.60 62.60 47.66 420	1.6 24.7 2.1 9.8 2.2 25.2 2.0 1.6 31.9 1.8 24.2 0.5 24.0 0.9 26.5 1.4 0.2 54.3	ASSINIA 276.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 BROAKOR 31.98 BROAKOR 31.98 CSM 170.47 CMDCam 130 CMDCam 130 CMDCam 131 CMDCam 131 CMDCam 131 CMDCam 131 CMDCam 131	-1 74.50 -8 448.50 -3 47.30	44 do 1.2 36 52 10 2.0 18 10789	3 BCH 3 BPopt 6 SSapki 7 CEPSA 7 Certin — CEsso	5,030a 12,580 8,090 10,270 5,820a 1,830 1,870	187010987451545149 197010987451545149	1,400 1,070 1,290 1,240 1,200 1,625 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	150 157 167 167 167 167 167 167 167 167 167 16	12 4 12 4 17 7 1.1 4 1.7 2 1.8 1 1.7 3 1.7 3 1.6 1 1.7 3 1.6 1 1.7 3 1.6 1 1.7 3	200192593643 - 154 9015935943 - 154 9015935943 - 154	Asics Asphyl Brokal Boyaft Tripata Reaths CSK Calpits Calque	132 298xd 1,555xd 1,751xd 3,010 500xd 2,750xd 473xd 3,170 1,615 1,168xd 210xd 210xd 210xd
960 25.29 466 372 671 763 55.10 30.60 62.60 47.66 420	1.6 24.7 2.1 9.8 2.2 25.2 2.0 1.6 31.9 1.8 24.2 0.5 24.0 0.9 26.5 1.4 0.2 54.3	ASSINIA 276.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 BROAKOR 31.98 BROAKOR 31.98 CSM 170.47 CMDCam 130 CMDCam 130 CMDCam 131 CMDCam 131 CMDCam 131 CMDCam 131 CMDCam 131	-74,50 -74,50 -844,60 -347,30 -760 1937 -760 1937 +20 43 +80 119,70 -10 4,995 -50 13,90 -2,30 2351	44 60 1.2 36 52 10 2.0 18 107.90 29 4.0 13 30.70 3.7 10 12.40 1.7 21 12.360 1.4 56 1.7 63 180.56 3.0 7	3 BCH 3 BPopt 6 SSapki 7 CEPSA 7 Certin — CEsso	5,030a 12,580 8,090 10,270 5,820a 1,830 1,870		1,290 1,290 1,290 1,240 1,200 1,625 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	1500 1570 1673 1,445 1,465 1,300 1,465 1,465 1,300 1,465 1,465 1,300 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,465 1,4	124 124 124 125 120 120 127 127 127 127 127	200 100 100 100 100 100 100 100 100 100	Asics Asphyl Brokal Boyaft Tripata Reaths CSK Calpits Calque	132 298xd 1,655xd 1,751xd 8,010 500xd 2,750xd 625 473xd 3,170 1,815 1,168xd 200xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 210xd 21
960 25.29 466 372 671 763 55.10 30.60 62.60 47.66 420	1.6 24.7 2.1 9.8 2.2 25.2 2.0 1.6 31.9 1.8 24.2 0.5 24.0 0.9 26.5 1.4 0.2 54.3	ASSINIA 276.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 ASSINIA 179.77 BROAKOR 31.98 BROAKOR 31.98 CSM 170.47 CMDCam 130 CMDCam 130 CMDCam 131 CMDCam 131 CMDCam 131 CMDCam 131 CMDCam 131	-74,50 -74,50 -844,60 -347,30 -760 1937 -760 1937 +20 43 +80 119,70 -10 4,995 -50 13,90 -2,30 2351	44 60 1.2 36 52 10 2.0 18 107.90 29 4.0 13 30.70 3.7 10 12.40 1.7 21 12.360 1.4 56 1.7 63 180.56 3.0 7	3 BCH 3 BPopt 6 SSapki 7 CEPSA 7 Certin — CEsso	5,030a 12,580 8,090 10,270 5,820a 1,830 1,870	18 P. 19 19 19 19 19 19 19 19 19 19 19 19 19	1,400 1,070 1,290 1,240 1,240 1,080 1,620 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520 1,520	150 157 161 161 161 161 161 161 161 161 161 16	124 124 177 1174 127 127 127 127 127 127 127 127 127 127	2001935843 - 154885 1093	Asics Asphyl Brokal Boyaft Tripata Reaths CSK Calpits Calque	132 208mi 1,835mi 1,721mi 500mi 2,750mi 3,170 1,815 1,168mi 218mi 488mi 208mi 198
960 25.29 466 372 671 763 55.10 30.60 62.60 47.66 420	1.6 24.7 2.1 9.6 2.2 26.2 2.7 57.1 1.8 31.9 1.8 31.9 1.8 24.0 0.9 26.5 1.4 73.7 0.4 41.4 0.3 24.0 1.9 26.0 1.9 26.0 1.9 26.0 1.9 26.0 1.9 26.0	ASSIN LI 179.7 ASSIN LI 179.7 ASSIN LI 179.7 ASSIN LI 18.7 ANDRIN LI 18.7 ANDRIN SC.3.3 BONCO S.3.3 BONCO S.3.3 BONCO S.3.3 BONCO S.3.3 BONCO S.3.3 DOMESTO S.3.3 DOMESTO S.3.3 DOMESTO S.3.3 DOMESTO S.3.3 BONCO S.3.3 DOMESTO S.3.3 BONCO S.3.3 BONC	-174.50 -6.44.60 -6.44.60 -7.60 1073 -7.60 1073 -	44 60 1.2 36 52 10 2.0 18 107.90 29 4.0 13 30.70 3.7 10 12.40 1.7 21 12.360 1.4 56 1.7 63 180.56 3.0 7	3 BCH 3 BPopt 6 SSapki 7 CEPSA 7 Certin — CEsso	5,030a 12,580 8,090 10,270 5,820a 1,830 1,870	1870 1987 1987 1987 1987 1987 1987 1987 1987	5,400 1,070 1,240 1,240 1,200 1,000 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,	150 150 150 150 150 150 150 150 150 150	1294 1174 1174 1187 1187 1187 1187 1187 118	2601935683 — 154885 10973 —	Asics Asics Asics and Asic	132 266d 1,555d 1,555d 3,010 5,004 6,25 47,750d 3,170 1,615 1,655d 47,80d 27,80d 48,80d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 5,00d 1,98 1,98 1,98 1,98 1,98 1,98 1,98 1,98
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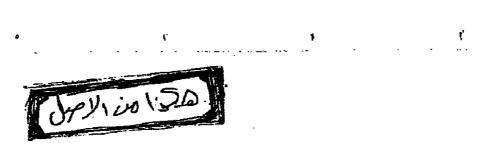
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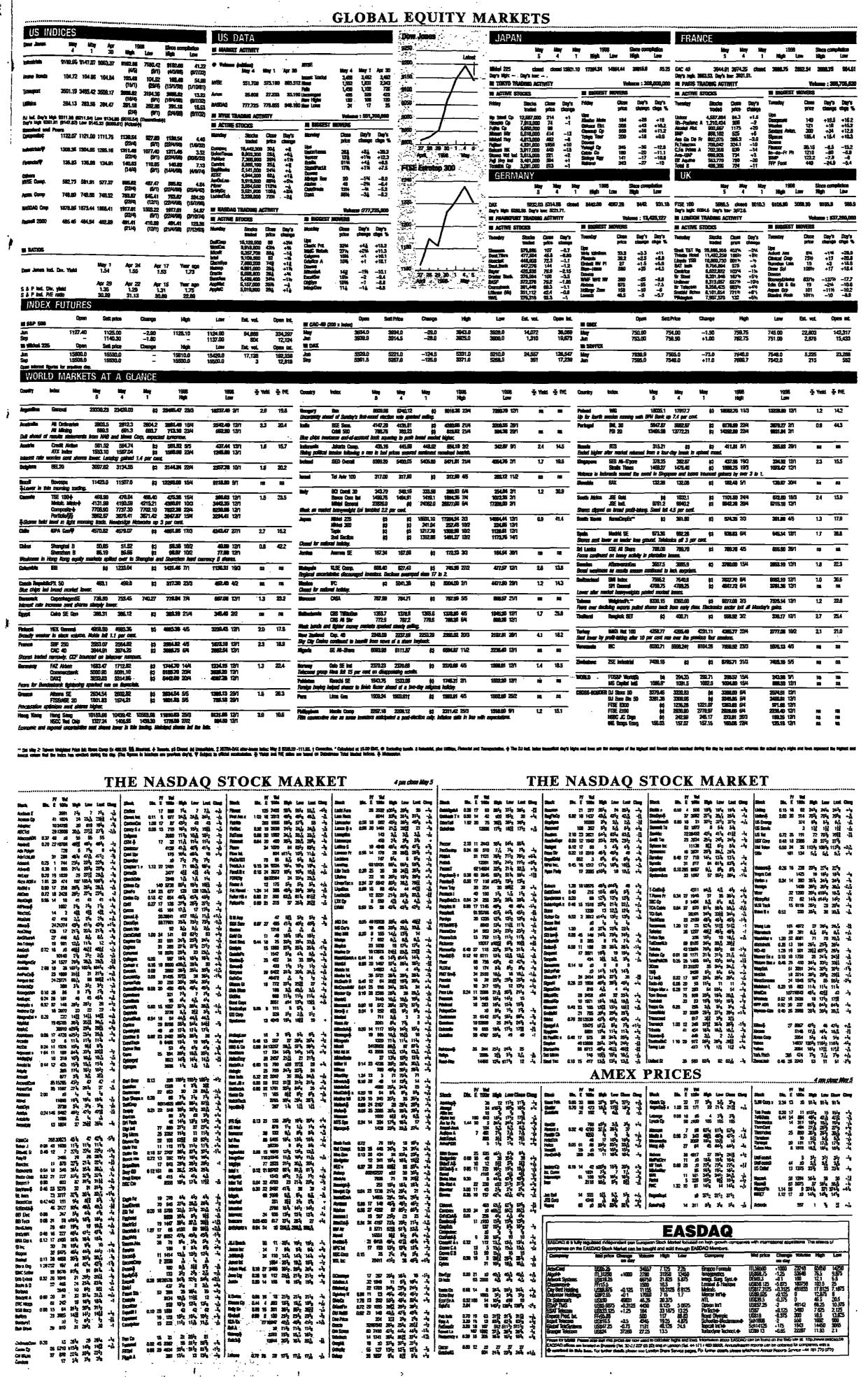
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**Budapest hungry** 

for new issues

EMERGING MARKET FOCUS

## STOCK MARKETS

## Investors unsettled by interest rate moves

**WORLD OVERVIEW** 

Interest rates moved in both directions in Europe yesterday, but a tightening by the Bank of Denmark appeared to score a visible points victory over another easing by the Spanish central bank,

against the dollar, and equity markets - with the Volkswagen and MAN were single exception of Athens - not far behind.

day's trading.

Germany led the way down among the major cen-tres, unwinding all of Monday's gains and more as tighter money markets and talk of an imminent upward rites leffrey Brown. rate move by the Bundes-As a result, the D-Mark bank unsettled financials. rallied to a three-month high Dresdner Bank fell 4 per cent, but big exporters like

engine that announced a

new three-year contract with

Other technology stocks

were similarly mixed, send-

ing the Nasdaq composite

down 9.01 to 1,869.85. Clsco

Systems, the computer net-

working leader, fell 515 to

\$74, while computer chip

maker intel lost \$4 to \$814.

Banking shares followed

bond prices lower. The Phila-

delphia stock exchange's

banking index fell 14.35 to

857.36. Among the fallers.

NationsBank lost \$1% to

\$75% and BankAmerica \$2%

Small-cap shares lost

TORONTO was weak in

morning trade as growing

fears of higher interest rates

sparked a widespread

The fears followed com-

ments by an International

Monetary Fund official who

predicted that the US would

need to raise rates sooner

rather than later to dampen

the high-flying US stock

Worries over the forthcom-

ing release of the latest US

employment data also

By midsession, the TSE-

Against the trend. New-

spooked the market.

market.

ground as well. The Russell

2000 index fell 2.82 to 482.64.

AT&T, fell \$4 to \$674.

second week, that is keeping a fifth of the workforce at

remind investors of the gennomic expansion in the US and Europe has begun to

In this respect, the next

Renewed speculation that

the Bundesbank may act

soon to raise interest rates sent the D-Mark higher

against the dollar and left

FRANKFURT equities more

At the close of electronic

Mannesmann was one of

the day's big losers, falling

DM67.40 to DM1.477.50 after

outlining plans to issue new

shares in a capital increase

Banks were also under

lower at DM104.35.

upbeat outlook.

ment in 1997 net profit.

first-half results.

75 pfg to DM102.50 in spite of

bank and the collapse of

talks seeking an end to the

around 20 per cent of the

discount and repo rates by

50 basis points to support

under pressure in recent

Investor confidence was

dealt a further blow when

orkforce at home

months.

trade, the Xetra Dax index

was 111.55 down at 5,226.20.

than 2 per cent lower.

EUROPE

in June.

krone under fire from the talking about a significant Europe's stock market landindustrial strike, now in its rebound for US job totals after the unexpected decline thrown up in March.

Whatever the immediate long-term bull argument for eral feeling of unease about Europe's equity markets interest rate trends that eco-remains Emu and the rapid inflow of funds eager to ride on the back of economic and monetary integration.

In their latest assessment

before a weak start on Wall stemmed from local curfigures, due on Friday, could change, Salomon Smith Bargrowing institutional invest. Street set the seal on a dull rency difficulties, with the be critical. Some brokers are new paints a picture of ment demand. scape 10 years hence that is

> The broker looks to equity markets in Europe to expand Nevertheless, it served to interest rate trends, the dramatically over the next all goes well, the next few decade: "In today's money. Eurozone equities could grow from \$3,600bn to \$7.500bn."

> > radical increase in new issue flows, continued high con-

off Fl 2.50 at Fl 124.50, was

gesting that its "alliance

talks" with Generale Bank of

KNP BT lost Fl 1.40 to

Fl 55.60 after local broker

Van Lanschot reduced 1998

earnings forecasts for the

packaging leader by 7 per

cent on worries about oper-

ating margins. Software

to F1 87.30.

group Baan came off F1 7.60

MADRID shed 2 per cent,

led by sharp declines in blue

chips in spite of a cut in

index fell 18.98 to 873.3.

Belgium had broken down.

also hit by scare stories sug-

The wealth of the Euro-

pean population in terms of GDP is not far behind the US, it says. But the supply of public equity lags visibly. If years should usher in dra-

The ratio of stock market capitalisation to GDP in Salomon puts its faith in a Europe is 57 per cent, little adical increase in new issue more than a third of the 147 per cent ratio to be found in

When the Budapest stock exchange index, the Bux, broke through the 9,000 level to hit an all-time high on to hit an an-time mas April 23. Balazs Csato was not too impressed. thought it would go down,"

> Though a carpenter by trade, Mr Csato, 27, is at the bourse almost as much as the besuited brokers. He is one of 200 small investors who pack the visiting area every day to lay out from Ft50,000 (\$250) upwards on fancied shares.

A stock exchange veteran, he can remember the 20month bull run that came to an abrupt end last August with the index near 8,500.

Mr Csato, and others around him, are under no illusions. "A run like that won't happen again," says a 52-year-old unemployed mason. But he is still more into blue chips than chipping stone.

Not that the players - big and small - don't see gains ahead, just that the heady days of 1996 and 1997 are over. "This year will see 40-50 per cent growth in forint terms," predicts Lor-incz Benedek, head of CAIB Securities fund manage-

Perhaps spoilt by the recent past, Mr Benedek almost sounds disappointed with his own forecast before quickly adding: "But that's still a good investment. I'm quite optimistic."

Nor is he worried by this cent climb on renewed hopes month's elections. "Everybody is waiting, but privatisation is already done. It doesn't matter in the macro sense." Mr Benedek favours mid-sized companies, such as the industrials moving to supply the export-driven

ering sector. The recovery since December has been driven by four big corporations - Matav, Mol, Gedeon Richter and Asset Management, The result is an evaluation gap

1997

between these and the next tier of companies down which includes chemicals and home-improvement com-Credit Suisse, which

favours Hungary with over a quarter of its \$1bn invested in central Europe, will target this layer in the next six months, says Mr Wellman And with the big privatics

tions over, more may follow that route. Following the \$100m Demasz offering in March, another five electricity distributors are expected to list this year. But regulations limit their profitability, leaving most

investors lukewarm. "It doesn't excite me," Peter Kadas, manager with emerging market fund Croesus. He awaits new issues needing fresh capital, like biotech companies The stock exchange is

installing a Ft1.5bn MMTS electronic trading system, and Zoltan Pacsi, chief executive, has initiated a market ing campaign aimed at 200 companies he thinks should be heading for the bourse.

"Many of these need canital, but they just think of bank loans. They are not familiar with the market options," says Peter Bielik. in charge of the campaign.
"Simply the idea of coming OTP Bank - says Glenn to the stock exchange has to Wellman, of Credit Sulsse be promoted."

Kester Eddy

## **Profit-taking** sends US shares lower

US shares followed bond prices lower, and the Dow Jones Industrial Average was almost 50 points down by midday, writes John Labate in New York.

Prices gave way to moderate profit-taking early in the session, with most sectors falling back. By early afternoon the Dow was down 49.33 to 9,143.33, and the broader Standard & Poor's 500 fell 5.80 to 1.116.27. US Treasuries also weak-

ened. The benchmark 30year bond had lost 🎎 to 1024, sending its yield higher to 5.958 per cent. Two major cyclical shares

led the Dow lower, International Paper fell \$1 to \$521/2 and Caterpillar lost \$1 to in the health sector, Entremed shares lost 10 per

cent or \$41 to \$47. The stock soared more than 300 per cent on Monday after a newspaper report mentioned its cancer-fighting drug

Shares of Cendant fell \$% to \$24% after the company reported earnings slightly higher than expected.

Internet stocks were mixed, a day after the news of two new deals. Shares of 300 composite index was industrial dispute keeping Netscape Communications 21.10 lower at 7,716.20 in rose more than 6 per cent to \$31% on its alliance with shares. search engine Excite. Excite's shares rose \$1 to bridge Networks gained \$73%. But Lycos, the search C\$1.35 to C\$46.15.

Sell-off fears at Telebrás

SAO PAULO edged lower in new president of the spite of hopes of a technical National Development Bank, rebound following its decline that the government was

The Bovespa index fell 101 to 11,406 on concerns over

studying the sale of Telebrás, triggered uncertainty over his commitment to

down by weakness in overseos markets and falls in Telebras fell R\$2.29 to ADRs of Chilean companies. The IPSA index fell 9.63 to

on Monday.

the privatisation of Telebrás. the federal telecom company, and falls in Asia and

R\$135.01. Reports yesterday

#### Bullish governor unheeded

**SOUTH AFRICA** 

Profit-taking sent Johannesburg lower as weak global markets and disappointing Stals. Reserve Bank gover-

or 1.7 per cent to 8,123.3. Industrials gave up 179.0 to

unchanged at 1,032.1 as bul-

reserve figures outweighed 9.761.2 and financials fell bullish comments by Chris 254.9 to 13,728.5. Golds were nor, that economic funda- lion stayed range bound.

est rates.

The overall index lost 140.9

## mentals justified lower inter-

## SANTIAGO was dragged

was in its ninth day vesterday, and involves almost

500,000 workers. Banks were hit as bond portfolios lost value on the tumble in bond prices. Den

Danske Bank fell DKr50 to DKr840 and Unibank declined DKr27 to DKr578. Other blue chips were also lower with Novo Nordisk,

the biotechnology group, retreating DKr50 to DKr1,100 and telecoms operator Tele Danmark down DKr19 to

PARIS ended lower, but trading was narrow and there was no shortage of

Dax falls on new rate fears

pressure with Dresdner 3,944.91 having moved Fl 50.70 while Fortis Amev, down DM4.15 at DM99.45 and within a range of less than Bayerische Hypo DM4.65 30 points.

Strong sales got behind Alcatel Alsthom, lifting the The day's corporate reporters had a rather better day. shares FFr20 to FFr1,175. SGL Carbon, the carbon and Usinor rose FFr1.50 to FFr94.30 after Morgan Stangraphite processor, jumped DM7 to DM200 in response to ley initiated coverage with substantially stronger first-"outperformer" rating quarter results and an and a target price of FFr105.

CCF bounced FFr6.30 to FFr499.90 on a renewed Phoenix, the rubber and plastics group, picked up DM2 to DM38.50 as the comround of takeover rumours that picked a number of big pany announced a sharp rise Dutch names as potential in first-quarter pre-tax profit suitors. ING and ABN Amro and detailed an improvewere among the front runners. The latter put out a "no comment" statement. Degussa, however, slipped

Oils ran into profit-taking. posting substantially higher Elf Aquitaine came off FFr20 at FF1788 and Total FF111 at COPENHAGEN dropped FFr724. Lafarge ran up the day's heaviest loss, sliding almost 4 per cent as shares were hit by a surprise inter-FFr19 or 3.2 per cent to est rate rise by the central FF1570.

ZURICH fell prey to profittaking after the near 6 per cent rally of the previous two sessions. The SMI index The KFX index closed under pressure from down 9.42 to 231.56, led lower renewed interest rate worby banking shares. The Dan-ries in Germany and the ish central bank raised its softer tone in US stocks.

UBS and SBC performed hetter than most blue chips the krone, which had been as the Swiss competition commissioner gave the go-ahead to their merger plans. UBS eased SFr2 to SFr2,545 and SBC was flat at the country's largest trade SFr549. CS Group lost SFr5 union group rejected a pro- to SFr329.50 with investors posed settlement by employ-ers to end the strike which UBS. said to be switching into

Against the trend, Holderbank, the cement maker. gained SFr70 to SFr1,665 on a buy recommendation from a private bank.

AMSTERDAM fell 22.86 to 1,174,37 on the AEX index after a further round of tightening in the money markets and a dull day for bonds.

Publishers ran up some of the biggest losses with Wolters Kluwer and Elsevier both falling more than 4 pe cent, by Fl 12.70 to Fl 259 and Fl 1.40 to Fl 30.20 respec-

Interest rate concerns firm features. The CAC 40 gnawed away at financials. index ended off 29.324 at ABN Amro gave up F1 1.40 to

#### Telefónica lost Pta200 or 3

per cent to Pta6,470 while Endesa, the utility, retreated Pta140 or 3.7 per cent to

MILAN edged lower in thin trading as a sell-off in blue chips depressed senti-ment. The Mibtel index closed down 236, or 1 per cent. at 23,826. Banca di Roma fell L85 to

L3,293, while Eni lost L239 to L12,161 after the government said it planned to sell a fourth tranche of the company, later this year. Olivetti, was among the few blue-chip gainers, rising L61 to L2.468. ATHENS quickly over-

came early weakness on news that the government would give details of its plan to sell lonian Bank on Financials led the market's advance with a 3.6 per

for consolidation in the baning sector, but industrials and constructions eased 0.3 per cent and 1.3 per cent. The general index firmed 31.72 or 1.2 per cent to 2,634.54. Ionian Bank

money market rates to record lows. The general climbed Dr988 to Dr13,278 while its parent bank, the Commercial Bank of Greece, The Bank of Spain's decision to cut its key money jumped Dr1,551 at Dr20,941. market rate by 25 basis points to 4.25 per cent marked the latest move in

Written and edited by Michael Morgan, Jeffrey Spain's drive to bring Brown, Emiko Terazono, short-term rates in line with Peter Hall and Paul Gregan

#### TENDER NOTICE **UK GOVERNMENT**

For tender on 12 May 1998

 The Bank of England announces the issue by Her Majesty's Treasury of ECU 1,000 million nominal of UK Government ECU Treasury Bills, for tender on a bid-yield basis on Tuesday, 12 May 1998. An additional ECU 50 million nominal of Bills will be allotted directly to the Bank of England for the account of the Exchange Equalisation Account.

4. Each tender at each yield for each maturity must be made on a separate application form for a minimum of ECU 500,000 nominal. Tenders above this minimum must be in multiples of ECU 100,000 nominal.

5. Tenders must be made on a yield basis (calculated on the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount tendered for

Her Majesty's Treasury reserves the right to reject any or part of any tender.

8. The arrangements for the tender are set out in more

Bank of England for the account of the Exchange Equalisation Account will be for maturity on 12 November 1998. These Bills may be made available through sale and repurchase transactions to market makers in order to facilitate settlement.

10. Copies of the Information Memorandum (and supplements to it) may be obtained from the Manager, External Debt, Foreign Exchange Division at the Bank of England (telephone number 0171 601 5982). UK Government ECU Treasury Bills act 1877, the National Loans Act 1988 and the Treasury Bills Regulations 1988 as amended. the Treasury Bills Regulations 1968 as amended. Bank of England 5 May 1998

## Manila spurred by poll hopes

**ASIA PACIFIC** 

Aggressive buying of blue chips enabled MANILA to extend its winning run into a fifth consecutive session as local investors positioned themselves for a further market rally after next Monday's election.

The composite index gained 59.06 or 2.7 per cent to close at 2.267.18 in modest turnover of 1.5bn pesos. The buying was mostly local with investors said to be scenting a smooth run

through to polling. Investors were also said to be more concerned about the way the election was going to be conducted than about who would win the 10-way presidential race.

Benpres Holdings rose 60 centavos to 8 pesos and San Miguel added 3 pesos to 45.50 JAKARTA tumbled 2.4 per cent as investors ran for cover after fuel price rises

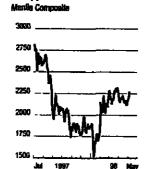
sparked fresh rioting and

analysts cautioned that the

outlook for the market

remained bleak while social

tension continued. The composite index lost ing of blue chips gather pace 10.83 to 435.16 as news broke during the second half of the concern that many of the of police opening fire on day, driving the composite companies had lost the sta-



demonstrators in the Bandar Selamat district near the a low of 10.132.63. Turnover centre of Medan, northern Sumatra.

Some Constraints(IV

News that the International Monetary Fund had agreed to disburse a delayed loan of nearly \$1bn to Indonesia had little impact.

Among heavily traded blue chips. Astra, the car maker, fell Rp200 to Rp1.275 trading activities. with high interest rates expected to hurt vehicle sales. Telkom lost Rp125 to Rp3.000.

KUALA LUMPUR saw sell-

index down 3 per cent as finance stocks and a handful of big names led the retreat. At the close, the index was 19.03 lower at 608.40. Worries about the health of brokerages reappeared after regulators banned

ating and asked both Omega and Alor Setar Securities to say why their licences should not be revoked or HONG KONG was sharply lower on the heels of falling futures, in line with regional markets. The Hang Seng

Omega Securities from oper-

index lost 285.76 or 2.7 per cent to 10,153.66 after hitting picked up, but remained slim at HKS5.6bn. Recent local economic

Kong's economy weighed on sentiment, as did news that tial gains, but still ended 2 Index heavyweight HSBC

lost HK\$4 to HK\$221, cent to NZ\$2.24 as investors accounting for nearly a fifth of the total turnover. But red chips suffered the largest setbacks, largely on

tus and privilege of being linked directly to the State Council. The China-Affiliated Corporations index slumped 5.6 per cent while H-shares shed

4 per cent. SYDNEY turned lower with the All Ordinaries index slipping 8.8 to 2,803.5. Volumes were thin with investors said to be sitting on their hands ahead of a number of heavyweight

results later this week. National Australia Bank, which reports interims tomorrow, added 6 cents to A\$22.02 and there was an 8 cents gain to A\$10.83 for News Corp ahead of thirdquarter figures on the same

WELLINGTON moved data that have been indicat- higher, adding 10.40 to ing a rapid slowing of Hong 2,248.09 on the 40 capital index. NZ Telecom pared inilocal broker Forluxe Securi- cents better at NZ\$8.58. ties had suspended its stock Fletcher Paper gained 11 cents to NZ\$2.75

> positioned themselves ahead of Friday's results for the forestry leader.

Carter Holt Harvey shed 1

Bangkok, Seoul and Tokyo closed for public holidays.

#### To the shareholders of Great Nordic Ltd.

The Annual General Meeting of the Company will be held on Monday 25 May 1998 at 3.30 p.m. at the Falkoner Center, Falkoner Allé 9, DK-2000 Frederiksberg

to transact the following business:

a) Report on the Company's activities b) Presentation of the annual accounts for approval and discharge of the Board of Directors and the

Resolution for the distribution of the net profit for the year, including the declaration of a dividend on the shares of the Company

Executive Management from their obligations

Roard resolution to authorise the Roard of Directors to transfer DKK 597,875,454 from the Company's share premium fund to free reserves (other reserves)

Resolution that the Board be entitled to acquire

up to 10 per cent of own shares Election of Board member

Appointment of two auditors for the current financial year.

complete resolutions to be proposed at the Annual General Meeting, as well as the Annual Accounts and consolidated accounts, including the Auditors' Report and the Report of the Directors, will be available for inspection by the shareholders at the Company's registered office, Kongens Nytory 26, third floor, 1016 Copenhagen K. Denmark, and at the Company's offices in Great Britain, Great Nordic House, 204 Godstone Road, Caterham. Surrey and at SG Hambros Bank Ltd., 41 Tower Hill, London. Not later than eight days prior to the Annual General Meeting, the above material will also be sent to every shareholder on the Company's register of members at such addresses as the shareholders have supplied to the Company.

From Friday 15 May 1998 the agenda and the full and

Admission cards to the Annual General Meeting will, until five days prior to the Meeting, be available on request from the Company's office from Monday to Friday between the hours of 10 s.m. and 4 p.m. to any shareholder who can prove a good title to his shares. The ownership of shares issued to bearer shall be proved by the presentation of an original statement of account of the shareholder's holding of Company shares, dated 13 May 1998 and issued by the shareholder's account-holding bank.

Any right to vote shall be conditional upon the voting share being registered in the name of the sharehold and entered in the Company's register of members and upon the shareholder being entitled to attend the meeting pursuant to the above-mentioned provisions. Where the shareholder has acquired shares by way of transfer, the share shall furthermore have been registered in the name of the shareholder by the data when the Annual General Meeting is convened, or the shareholder shall have submitted notification and documentary proof of his title to such shares at the time of the notice convening the Annual General Meeting.

Copenhagen, 5 May 1998

The Board of Directors

**ECU TREASURY BILLS** 

The ECU 1,000 million of Bills to be issued by tender will be dated 14 May 1998 and will be in the following maturities: ECU 200 million for maturity on 11 June 1998. ECU 500 million for maturity on 13 August 1998. ECU 300 million for maturity on 12 November 1998.

3. The tenders will be open to anyone who wrenes to appropriate All tenders must be made on the printed application forms available on request from the Bank of England or, in the case available on request from the Bank of England or, in the case of the market makers listed in the Information Memorandum (as supplemented), by telephone. Completed application forms must be lodged, by hand, at the Bank of England, Customer Settlement Services, Threadneedle Street, London not later than 10.30 a.m., London time, on Tuesday, 12 May 1998. Payment for Bills allotted will be due on Thursday, 14 May 1998.

tendered for.

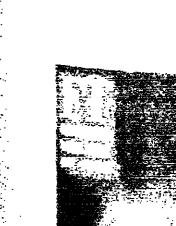
8. Notification will be despatched on the day of the tender to applicants whose tenders have been accepted in whole or in part. For applicants who have requested credit of Bills in global form to their account with Euroclear or Cedel Barik, Bills will be credited in the relevant systems against payment. For applicants who have requested definitive Bills, Bills will be available for collection at Customer Settlement Services. Barik of England after 1.30 p.m. on Thursday, 14 May 1998 provided cleared funds have been credited to the Bank of England's ECU Treasury Bills Account No. 59005516 with Lloyds Barik PLC, Bank Relations, St George's House, PO Box 787, 6-8 Eastcheap, London EC3M 1LL. Definitive Bills will be available in amounts of ECU 10,000, ECU 50,000. ECU 100,000, ECU 50,000. ECU 1,000,000 and ECU 10,000,000 nominal.

7. Her Majesty's Treasury reserves the right to reject any or

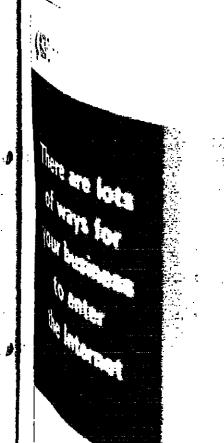
8. The arrangements for the tender are set out in mora detail in the Information Memorandum on the UK Government ECU Treasury Bill programme issued by the Bank of England on behalf of Her Majesty's Treasury on 28 March 1989, and in supplements to the information Memorandum. All tenders will be subject to the provisions of the information Memorandum (as supplemented) and to the provisions of this notice. 9. The ECU 50 million of Bills to be allotted directly to the

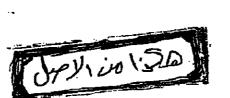
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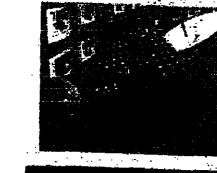
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FINANCIAL TIMES REVIEW

Digital broadcasting Multimedia maelstrom: Reshaping computing and communications. Pages 4-9



IT in training The skills' crisis: Advent of the learning company



Transport telematics Europe sets the pace: Using IT to ease the traffic jams



# Information Technology

Wednesday May 6 1998

With the prospect of cheaper calls, Internet telephony will transform the economics of telecommunication services for business users, reports Paul Taylor

# Big shake-up for telecom suppliers

telephony - the technology that enables voice calls to be routed over data networks - was mostly dismissed as not a viable business option. Handicapped by its low speech-quality and complexity, it was seen as little more than a hobby for computer 'nerds' or a way for impoverished students to make cheap calls

Now, however, spurred on by privatisation, liberalisation and deregulation in the telecoms industry and the emergence of a new breed of 'data centric' network operators such as Qwest, IDT and Delta3, IP telephony it is set to enter the mainstream as a low-cost alternative to traditional individual consumers and big

For example, Qwest, the fast-expanding US-based fibre network telecoms upstart launched a cut-price IP telephony service aimed at the US consumer market in December Users dial into the network with a local number, then enter a 10 digit authorisation code and e nu calling. Long distance calls cost 7.5 cents a minute - considerably cheaper than traditional call

"These are exciting times for IP telephony," says Mark Purdom of Ascend, the communications network equipment specialist. But like most other industry insiders, he believes that while. consumer internet telephony applications grab most of the headlines, it will be corporate demand for IP services that will ultimately drive IP telephony not least because most large companies already have dedicated data lines or virtual private networks.

y var iki

"This is going to be a big year for IP telephony," agrees Patrick Fetterman, director of IP Telephony at US-based Natural MicroSystems, a technology leader in the field of advanced telecommunications. "From the traditional 'telco'infrastructure to advanced applications in call centres, IP telephony is creating new markets, opportunities, and revenues," said Natural

MicroSystems in a recent report. in the US, the market for IP telephony services is expected to be worth about \$30m this year, but by 2004, annual spending on Internet phone calls will rocket to \$2bn, or more than 4 per cent of US long-distance telephone revenues, according to Forrester

Research, a market research group. "Internet telephony is about to get respectable," says Christopher Mines, a telecoms analyst with Forrester and the author of a recent report on the subject. Another study by Frost & Sullivan predicts that the total IP telephony equipment market will have a compound annual growth rate of nearly 150 per cent for the next few years, reaching \$1.89bn by the year 2001.

Most industry analysts think it ımlikely that IP telephony will replace the traditional voice networks in the foreseeable future, not least because of the huge levels of investment tied up in the 'plain old telephone service' and the relative sparsity of Internet access. But there is no doubt that IP telephony is already creating dramatic changes in the traditional telecommunications industry forcing big telecoms operators to alter their strategies and in some cases, to set up their own IP telephony operations.

n technical terms, IP telephony represents the convergence of circuit-switched networks, such as the traditional Public (PSTN) and leased lines, with packet-switched networks, such as the Internet or intranets, local area networks and other data

communications technologies. .Instead of being handled as an analogue signal over the circuit-switched networks of the telephone companies, voice calls over the internet are cut up into digital 'packets', compressed. transmitted independently to their destination over the internet and are then re-assembled into speech.



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Because these packets can be packed tightly together, they do not waste space on the silences and pauses that make up a typical conversation, they make much more efficient use of network bandwidth.

"The driver has been to make better use of the most expensive resource - wide area bandwidth. say Richard Frawley and Paul Shreeves, experts on IP telephony with Cisco, the network equipment market leader. Using compression it is possible to squeeze up to 10 times more voice down a digital IP link than the equivalent analogue line.

What is more, from the user point of view, an Internet telephone call costs the same, no matter how far the distance. In addition, by treating voice as another form of data and sending it over the same network as data, IP telephony is enabling new applications that use the best characteristics of voice communications and data

These applications can include PC-to-PC connections. PC-to-phone connections, and phone-to-phone connections Example applications include voice over the internet or (both real-time and store-and-forward), unified saging via the web, web-enabled call centres, internet call waiting, and much more.

Companies will seize the opportunity to cut their phone bills by using new internet services once sound quality issues are resolved, predicts Forrester. International calling, fax and

intra-company phone calls are identified as three types of communication most suited to IP telephony. The economics of fax transmission over the internet are particularly compelling, because it does not matter if a fax is sent in the form of packets. is bounced around the network and then reassembled, with a few seconds delay, before being forwarded on to the recipient's fax machine. UUNet recently launched a service called UUFax which takes fax transmissions that would have travelled over expensive long-distance telephone connections, and

re-routes them over the Internet. "The Net will provide the next zeneration of fax technology allowing more companies to cut crippling communications costs," says Rony Homossany, in charge of sales and marketing at Ralinx whose PASSaFAX products enable companies to route faxes via their existing data network or



the Internet. Voice conversations are more manding because network delays (latency) or lost packets can lead to an unacceptable deterioration in quality. Indeed, much of the scepticism surrounding voice over IP services reflects the limitations of the first generation of Internet elephony software, launched in 1995, which provided a means to talk only to people with the same

software. Sound quality was often poor, and intermittent delays forced users to adopt CB-radio style procedures. But the technology

underpinning IP telephony is advancing quickly. The big breakthrough has been the

introduction of 'gateway servers' that link data networks to traditional telephone networks. In the 'gateway', analogue voice signals from a telephone are converted into digital packets based on the IP standard, or vice versa. This enables PC users and companies with Internet links to place calls to anyone with a

Sales of gateway servers supplied by companies such as VocalTec, the Israel-based IP telephony specialist, are expected to rise dramatically over the next few years to reach more than \$1.8bn by 2001, according to Frost & Sullivan, the market researchers.

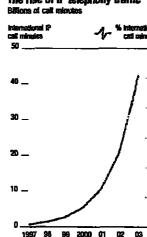
Meanwhile, the sound quality

of Internet phone calls is also improving. "The quality is already better than cellular phones." says Elie Wurtman founder and president of Delta 3. one of the market leaders. Indeed, Delta3 claims its service can actually offer better quality than existing lines from many developing countries – at a

fraction of the cost. One way open to corporate users to further improve quality is to route voice calls over a private Internet-style network where bandwidth requirements can be effectively managed. An alternative is a concept called tag-switching, devised by Cisco and being evaluated as a

standard by the in Internet

The rise of IP telephony traffic



Engineering Task Force. With tag-switching, the first packet carries the equivalent of the pass that allows business passer to go through a fast lane at customs. It clears a path for subsequent packets.

This type of technology will enable IP telephony service providers to offer quality of service (QoS) guarantees and provided tiered tariffs to their business customers

This ability potentially poses a serious threat to traditional phone companies. Phillips Tarifica, a UK consulting group, estimates that US phone companies stand to lose \$900m a year in revenues by 2001 and predicts that leading European carriers would also lose hundreds of millions of dollars.

However, a growing number of traditional telephone companies including AT&T in the US and Germany's Deutsche Telekom are rising to the challenge.

"The internet is a major force new market opportunities for telecoms companies which have to decide whether they embrace the new Internet economy and take a lead in creating the future, or fight a rearguard action against it," says Analysis, the Cambridge-based telecoms consultancy. Indeed, with IP voice traffic projected to rise from virtually zero last year to more than 45hn minutes - or more than 25 per cent of the total in 2003, there is little doubt that the migration of voice to the Internet will transform the economics of telecoms services.

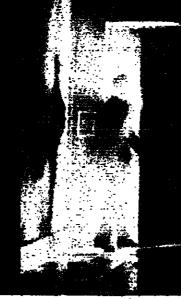
Nortel, the telecommunications equipment manufacturer, says that "voice over IP is the opening shot in a battle that will break down the barriers between voice and data carriers and reshape the industry.'

In the process, business users as well as consumers, should reap the benefits of competition in the form of broader range of services and reduced costs.

"In a few years, people will look back to an age where voice and data traffic were carried on separate networks with the same mixture of puzzlement and humour with which many regard the stand-alone PC of the 1980s," says Nortel.

"Certainly, the logic behind integrating the two types of traffic is inescapable."

There are lots of ways for vour business to enter the Internet



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Industry leaders Microsoft and Intel are facing mounting antitrust pressures, NEWS UPDATE reports George Black

# June launch of Windows 98 still under threat

Antitrust actions against industry leaders Microsoft and Intel are intensifying, amid signs that US interventionist stance.

Twelve US states are working with the Department of Justice with a view to halting Microsoft's planned June 25 launch of the Windows 98 operating system. The Software Publishers' Association, which represents 1,200 software companies worldwide, has called on the Justice Department to block Windows 98 and take action against what it calls Microsoft's anti-competitive practices.

US reports say that the authorities could issue writs against Microsoft, the world's leading software company, as early as this week, though the chances of them stopping the launch are uncertain. They will have to move quickly to intervene without causing serious disruption in the market. The product has been under test by around 100,000 users and is due to ship to manufacturers in the middle of the

Microsoft's opponents have complained that it is unfairly forcing PC manufacturers who licence its operating system to instal its browser. Microsoft contends that Windows 98 does not bundle internet access with the operating system but is a wholly new and integrated product. It has responded with an advertising

campaign against governmen intervention. Rival Netscape has alleged that Microsoft in 1995 illegally proposed a deal to divide the browser market between them, a claim which

Microsoft has rejected. US politicians have begun to take sides on the issue. The Justice Department has widened its inquiry to include the dispute between Microsoft and Sun Microsystems over the Java language, which is seen as potentially important for Internet commerce, Sun and others have accused Microsoft of diverging from the proposed industry

standard to tie Java to Windows. The Justice Department has received a number of submissions from the industry on how Microsoft's dominance

### Sense of urgency

Last month Microsoft appeared before a US appeals court seeking to overturn the Justice Department's injunction ordering the separation of its Windows 95 operating system from the browser. Microsoft's lawyers said no computer manufacturer had chosen Windows without the browser, though it had given them that option as instructed. The court is expected to rule on this case imminently.

There is a rising sense of urgency in the IT industry surrounding the antitrust probes, since many other

software developers are planning to introduce applications programs designed for use with Windows 98, PC makers are also gearing up for the software program. The potential for disruption throughout the PC industry would weigh heavily against a court granting an injunction. A coalition of technology companies, computer retailers and distributors with combined revenues of more than \$100bn (£60bn) launched a lobbying effort last Thursday in opposition to the states' planned legal action.

Meanwhile, the Federal Trade Commission, which is looking into chip-maker Intel, is taking sworn statements from its executives. The FTC is trying to ensure the survival of Digital's Alpha chip, a rival to Intel, albeit a marginal one

Intel recently bought Digital's Alpha factory. The FTC has ordered Digital to licence Alpha production to at least three other companies. FTC chairman Robert Pitofsky has spoken of the danger of "bottleneck monopolies." In a separate action, a US court in Alabama ruled that intel appeared to have acted in restraint of trade and violated antitrust law in a dispute with workstation manufacturer, Intergraph. Intel has appealed.

Microsoft holds around a 90 per cent share of the operating systems market and Intel around 94 per cent of the

# PC prices fall sharply

are continuing to fall sharply, squeezing the margins of the industry eaders. Sales are rising. but even the largest vendors are finding the going extremely tough because intense competitive pressure keeps forcing prices down.

Lower PC prices cut Intel's profits by 36 per cent and compelled it to lay off 3,000 staff; lower prices also cut Compaq's profits by 96 per cent and contributed to IBM's first quarter profit decline of 13 oet cent

Prices look set to continue to fall through the current quarter as dealers try to get rid of excess

stock in preparation for introducing new models in the third quarter. Compaq admitted it had overstocked the reseller charmel and said this would take the second quarter to rectify

Some PCs are now selling in the UK for little more than £500. Intel reacted by launching its new Celeron chip aimed at PCs priced below \$1,000. Regional director Dave Hazeil says the company believes that machines based on the Celeron will appeal to home users and some smaller business users, but that the larger part of the market will remain with

'performance' PCs. With this in mind, Intel also introduced new

nies on both sides of the

Atlantic follow the same

practice. An attempt by the

US accounting authorities to

Spending on IT as a pro-

portion of total spending is

organisation, Compass, indi-

cates. Expenditure has risen

from 2-3 per cent in the 1980s

to 7-10 per cent today, with

some large companies even

spending more than 20 per

cent. But Compass points

out that most companies

cannot fully justify this expenditure, as they are not

measuring the contribution

Small and medium-sized

enterprises think that cost of entry, shortage of expertise

and market uncertainty are

the main barriers to engag-

ing in electronic commerce.

This is the main finding of a

survey by e-commerce

hibitive, though most recognised it could increase their

revenues and bring competi-

tive advantage. Of those

merce, 92 per cent said it

gave them a strategic advan-

taga.

□ InterForum's London

symposium, 'Using electronic imerce to expand your

company, is on June 10: for

details, see diaru dates, below

☐ June 9-11: Telebusiness \*98.

Wembley Conference Centre, London: conference and exhibition; for details,

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osium theme at the Oueen Efiza-

Around 85 per cent said the cost was likely to be pro-

of IT to their profit.

Worries over

e-commerce

IT spending

at 350MHz and 400MHz. PCs using these chips. likely to be priced from £1,400 to £2,500, will come on to the market in the next few months. "The second half of the year

should be more normal," says Hazell. Intel believes the arrival of digital video disks (see report, page nine) will cause a lot of upgrading to more expensive PCs towards the end of the year. The battle among the leaders for market share is

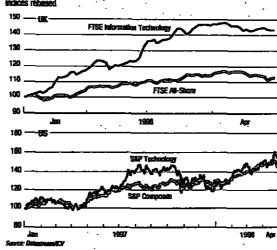
making it ever harder for second-tier vendors to stay in the business. Siemens-Nixdorf has announced that it will

manufacturing, disposing of its German factory to Acer of Taiwan, one of the strongest of the second tier Dutch manufacturer Tulip has gone into receivership. Prices could fall further

still if National Semiconductor succeeds in its attempt to combine most of the PC functions on to a single chip. It hopes to be producing such chips by mid-1999, which could bring personal computer prices down to around \$400, it claimed.

Price pressures are also combining with the Asian financial crisis to trouble memory chip producers. forcing LG and Hyundai to postpone opening their UK plants.

### How high tech sectors outperform



RESEARCH DIGEST . By George Black

# he menace of spam

While in the US attempts are it claims, would have made a being made to legislate loss in recent years if costs against 'spamming' - or had been correctly stated. junk e-mail - the spam prob- Most other large IT compalem is costing British and Irish businesses £5bn a year in wasted time and could affect the progress of the Internet, according to a change the rules in the early report sponsored by Novell, 1990s was unsuccessful

the networking company. Nearly two-thirds of the respondents said they had ing products or services. But much spam is aggressive or pornographic, the survey found. Most of the time is rising inexorably, a new wasted in simply reading report by benchmarking and then deleting the useless

Filtering techniques are rarely used, either because people do not know of their existence or because they are difficult to apply so that bona fide e-mails are not

Legal remedies are also rarely sought. In the UK, it is still unclear whether the Computer Misuse Act could be invoked if actual damage to systems were sustained.

### Profits 'are exaggerated'

Many US and European high technology companies may be greatly over-stating their profits because of the way in which they account for share options, says a new study by London research firm, Smithers and Co.

It has calculated that companies may have overstated their profits by as much as 30 per cent because share options are not charged to already involved in e-comthe profit and loss account as costs. In some years this could make the difference between recording a profit and recording a loss, says

Microsoft and Intel are

Diary dates

☐ May 7-10: IT Directors' Forum,

P&O ship, Orlana; conference; for

details, call Richmond Events: +44

☐ May 5-7: Intobase and Internet

World Spring '98, Frankfurt, Germany;

International Trade Fairs; Messe

☐ May 11-14: Internst World UK

Spring '98, Lendon Olympia; confer-

ence; contact, Mecklermedia: +44

☐ May 13: IT Futures '98, Hessle-

wood Hall, Hessle, East Yorkshire, UK;

conference run by Martin Butler,

chairman, Butlér Group. Details on

☐ Jame 2-3: Preparing for ⊕NU:

the IT challenge, London; conference

and workshop; Business Intelligence:

☐ June 2-3: Marketing on the

internet, Washington hotel, London;

conference; Learning in Business: +44

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Europe, Amsterdam, Netherlands; con-

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### THE MONTH IN BRIEF

### SAP up 72 per cent

SAP, the world leader in business applications software, recorded a 72 per cent jump in profits in the first quarter. reflecting heavy spending on new systems to cope with the year 2000 problem and Economic and Monetary Union (Emu). But the German company warned that the second half of the year would see slower growth as those projects began to be completed and the Asian financial crisis made an impact. Stronger competition with SAP from Oracle, PeopleSoft, Baan and others is foreseen

### Tech Data buys Computer 2000

Tech Data, the US computer products distributor, has bought 80 per cent of the German company Computer 2000 for around \$395m. This reinforces Tech Data's position as the second largest equipment distributor in the world after Ingram Micro, supplying around 150,000 dealers, with sales of around \$12bn.

### Apple makes another profit

Apple Computer, the personal computer manufacturer, made its second successive quarterly profit, better than expected at \$55m, though revenue was down slightly to \$1.4bn. Acting chief

### Dixons buys Byte

The LIK PC superstore business is now dominated by Dixons after it bought the Byte chain of 16 stores from Specialist Computer Holdings for between £5m and £7m. The Byte stores, which had been making a loss, will be re-named as PC World to match Dixon's 50 other superstores. Dixons issued a profit warning in January, partly due to slowing sales at its PC World

### ISPs not held responsible

Internet service providers are not responsible for the content of Web sites to which they give access, a US court ruled. upholding the case but forward by America Online. The ruling was applied in a defamation suit against a Web site and AOL. It clarifies what ISPs have long argued, that it is unfair to treat them like traditional publishers in this respect.

### Two UK companies to float

British IT services companies, Computacenter and ITnet, plan to float on the London Stock exchange. Computacenter, a leading distributor and support service, has grown to £1.13bn revenue since it was set up in 1981 and is expected to be capitalised at around £900m. (Thet, the former IT department of Cadbury Schweppes and now a top outsourcing provider, is likely to be valued at around £200m.

### Intel's Grove to auit

Andy Grove, co-founder of the chip manufacturer Intel, will this month step down as chief executive and hand over to Craig Barrett. Barrett has been responsible for Intel's manufacturing operations for many years and the succession was foreseen. Grove will concentrate on his role as a champion of industry

### Symbol approaches Telxon

Symbol Technologies, a leader in handheld scanners, has made an Informal takeover approach to Telxon, one of its principal rivals. Symbol said it hoped for an amicable solution but did not rule out a hostile bid. Telxon said its board would consider the ffer. Both companies' shares rose on the news,

### Silicon Graphics makes loss

Silicon Graphics, the workstation manufacturer which compete with Sun Microsystems and Hewlett-Packard, reported a heavy loss and reduced revenue in its third quarter. It had issued a profit warning. Revenue was down 22 per cent to \$708m and the company made a loss of \$68m. It announced a re-structuring and said it plans to move more towards using industry-standard Intel chips and Microsoft's Windows NT

### Digital prepares for merger

Digital reported better profits than expected as it slims down in preparation for completting the take-over by Compaq in the next few months. Third-quarter profit was up from \$51m to \$307m after the sale of its networking business to Cabletron, but revenue was down 4 per cent, as customers awaited completion of the deal. Further severe staff cuts are anticipated after the take-over and Digital's chief executive Robert Palmer is

### Check Point hit

Shares in the leading firewall vendor, Check Point Technologies. fell by around 20 per cent on a statement by Microsoft that it would enter the market for Internet security products. Check Point is an Israeli company with a head office in the US. It floated in 1996 and has prospered since then, but the prospect of competing with Microsoft has shaken the confidence of

### ARM shares buoyant

Shares in ARM, the UK chip developer spun off from Acom Computers, jumped 70 per cent in five minutes after the company floated on the London Stock Exchange. At one point in the day they reached £10, though the original float price had been twice raised and the eventual float price was fixed at 25.75. ARM was also listed on the US Nasdaq exchange. Its first quarter profit more than coubled to £1.6m on turnover up 66 per cent to £8.6m.

> George Black's e-mail address: gbg26@dial.pipex.com

### Golden handcuffs for IT staff

cope with the year 2000 date gency as a bargaining change, they are being forced to pay IT staff more

Loyalty bonuses of 50 per cent of salary are becoming commonplace in the UK, and claiming that this was with some even willing to

Banking and Finance Union cial bonus to tackle the work needed to keep them in line

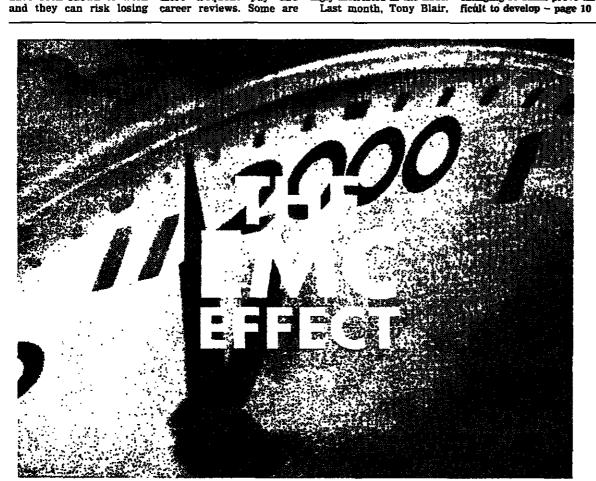
offer a 100 per cent of salary with other large employers. Other employers are tryafter the systems should working conditions and

As companies struggle to some staff. Trades unions asking for longer periods of the UK prime minister, convert their systems to have begun to use the emer- notice before staff can leave. announced a new initiative Many businesses are discounter. For example, the covering that they have substantially under-estimated has been in dispute with the impact and associated Barclays, demanding a spe- costs of the so-called 'millen- make only a minimal impact nium bomb' – or 'Y2K' prob-

Meanwhile, some compa-Typically, companies are ing different tactics, such as compliant software and date- already overstretched marplanning to pay the bonus offering increased holiday, related calculations. Now some time in the year 2000. share options, more flexible investors, auditors and lawyers are becoming increashave been shown to work more frequent pay and ingly interested in the issue.

to create more IT skills by introducing short training courses. But industry sources expect that this will on the year 2000 problem and say that companies must act urgently in whatnies have already encoun- ever way they can to attract tered problems with non- and retain staff from an

> See section three: fastchanging IT skills prove dif-



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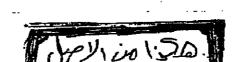
time to Year 2000 compliance and ensuring

continuous, uninterrupted operations throughout

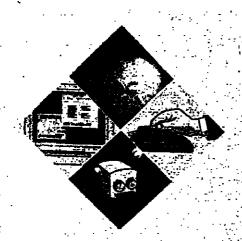
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The FT Review of Information Technology

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Editorial inquiries: see details of the FT-IT fax-u-back service, page 15. Writers in this issue, (volume four, number six): Paul Taylor, IT correspo , IT correspondent; John Kavanagh, Geoffrey Nalm, ski, Philip Manchester, Rod Newing,

Cover Einstration: Mark Thomas Cover musturation: main i liverium. Graphics: Robert Hutchison. Piotare research: Patricia Lee and Maithew Glynn.

IT in sport; and a third section which will focus on 50 years of IT, as June marks the 50th anniversary of the first computer to run with its own program, stored in memory.
Place 17 news update and intervi

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Subscription service: full details appear on page 9 of this review

er One, Sou

Paul Taylor interviews Gaston Bastiaens, chief executive of the speech technology pioneer, Lernout & Hauspie

# Breakthroughs in voice technology

hen Microsoft, the world's include factory automation systems, security and car invested \$45m in Lernout navigation – "this is a mar-& Hanspie, the Belgium-based speech technology pioneer, last autumn, it sent a wake-up call to the information technology industry: after years of laboratory development, voice technology is a 'hot' topic poised to enter the commercial mainstream.

"Over the last year there has in the acceptance of speech across the range of applications," says Gaston Bastiaens, Lernout & Hauspie's chief executive. "The reason for this is very obvious - it is due to the ability of high speed, low cost, digital sound processors and high-speed microprocessors.

As a result, he says it is now possible to integrate complex lgorithms with low cost devices while maintaining high quality. "The market for speech applications includes key markets such as computing, consumer electronics, communication, document generation, education, entertainment, navigation, productivity and security - all areas where today you can see real-world speech-based applications," he says.

At present, the biggest sector is in telephony, where applications range from voice-dialling to automatic attendance, e-mail reading, web telephony, voice paging, voice-based telephony broadcasting, smart phones and universal mail boxes.

Another important area is certainly the consumer electronics market where, up to now, the main application has been "talking dictionaries," says Mr Bastiaens. Now, you see speech integration in electronic organisers, digital answering machines and voice recorders, and companies are working on hand held translators." Other areas that are growing

rapidly are the home automation

and industrial markets which

systems, security and car navigation - "this is a market we consider to have high potential growth and it is an area where we have a strong position as a result of important deals that we have made over the last year with chip manufacturers such as Hitachi, NEC, LG Semicon and

SGS-Thomson," says Mr Bastiaens The company has also completed deals with market system suppliers, such as Pioneer and Alpine, which integrate L&H technology into their systems. "Microsoft has decided to integrate our ASR200, automatic speech recognition engine and text-to-speech engine in the Windows CE platform focused on

car navigation," he adds. L&H's close relationship with Microsoft also includes a co-marketing deal with the US software giant. "This is important to our dictation division where we have introduced VoiceXpress technology which is based on continuous dictation and combines capability found in our Voice Commands product, a natural language-based command and

Initially, L&H is targeting the American market where it has a strong position following the acquisition of Kurzweil, he says. We will also be targeting the broader business market and in that area the co-operation with Microsoft is of very high

importance." Mr Bastiaens argues that the human voice is the most natural way to communicate with devices and software programs. For instance, in the medical market, in areas such as cardiology, radiology and emergency medicine where doctors and specialists need to record everything they do, voice is the most natural way.

"Voice is a very simple way to communicate if you are dealing with financial transactions or, if



you are looking at security, as the human voice is as unique as your fingerprint - and this can give you

protection," he adds. In education voice can also be very important. "We are working on programs for devices such as talking dolls where a child can talk to the doll and the doll can talk back. "It is a very, very good way to help children learn to write and pronounce properly," says Mr

ver the next ten years, he believes the voice technology market will grow into a multi-billion dollar market. The dictation market alone could be worth about three billion dollars worldwide because of the breakthrough in continuous dictation. Meanwhile, the translation services market is already worth about three billion dollars and is growing by 15 per cent a year. A big part of that is currently human-based, but L&H insists its machine translation

technology is rapidly making

inroads into the market. "There are a lot of companies

that are in speech technology, but the majority of them are niche players," says the L&H chief

"We are basically the only global player who can offer the broad range of solutions. If you look at the compression market, there are big players such as Lucent and a lot of smaller players such as DBSL and also the DSP Group that integrates coding and chips and so on, but we are in a strong position with our low-bit codes for wireless

"Also, continuous dictation where you have suppliers such as Phillips, IBM, Dragon and so on again, there we also have a unique position because of our integration of continuous dictation with natural language base commands, so I think across the board we are the only company that clearly has all those technologies.'

He also insists that the group's phonetic-based engine and, more particularly, its linguistic

Lemout & Hauspie's man at the top

Title: President and chief executive, Lemout & Hauspie, Belgium. engineering, Louvain University,

experience in the consumer electronics, multimedia and comp software industry. He started at Philips Electronics, as general manager of the Interactive media division. He was vice president and general manager of Apole Computer's personal electronics division and became president and chief executive of Quarterdec before becoming president of Lemout &

components, give it an advantage over some of its competitors. "Our background in machine translation together with dictation and text to speech means that we are able to develop natural language based components and natural language

"If you can understand a sentence it is much easier to translate it. When a computer understands a sentence, then the computer can better answer it. And that's the basis of the dialogue system. When you take a sentence which resembles another sentence with the same components, it's

then very easy to respond to it."

Mr Bastiaens also believes that being headquartered in Belgium has been a positive advantage. Take, for instance, the linguistic element of machine translation. Let's look at the European Union. The EU has to support 15 countries with 14 languages and they are going to add five new language areas which will include Czech and

Polish and so on. "After that, they are going to add another six, so in the end, every time they add another language such as Ukrainian, they have to add 21 language pairs.

"It may be easy to find Ukrainian, German, French or English translators, but finding Ukrainian to Danish, or Ukrainian to Flemish translators, would be

very difficult to find." Looking ahead, he says he expects L&H's four basic businesses to grow in tandem. "I expect that we will get 30 per cent of our revenue from licensing, 30 per cent from dictation, 30 per cent from translation services and 10 per cent from machine translation. We expect these figures to be in place for the next couple of years and we will see growth in all four areas in revenue and in earnings

# ne earth's favourite computers.

### Focus on digital broadcasting and new media

Here and on the following five pages, FT writers look at the impact of digital technology in the home and business world:

 Digital satellites; who rules the 'airwaves' in cyberspace? Page 5

☐ Direct satellite services; dīgital TV heralds a vast set-top boxes. Page 6

□ Pioneer in high-end digital TV; digital radio. Page 7

□ Broadband broadcasts; digital versatile discs. Pages 8 and 9

Te are in the midst:
of a digital maelreshaping the traditional computing, communications: consumers and a new multimedia rich world of information, education and entertainment.

This revolution which spans the traditional media, broadcasting and cable industries but also embraces new forms of distribution. has at its core the development, manipulation and dissemination of information stored in the form of the 'ones and zeros' of binary computer language.

Because they share a common foundation, digital technologies are sweeping away the differences between data processing and telephony, laying the foundations for the dawn of the information age, or global information society as the European Union calls it.

Digital technology has made it possible to convert text, sound, graphics and moving images into coded digital messages which can be combined, stored, manipulated and transmitted large volumes over wired and wireless networks withomised by the explosive growth of the Internet and the deployment of new digital interactive services via the UK in the forefront - via digital terrestrial television.

Convergence of the IT. telecoms and broadcasting industries - made possible technologies - means that many different organisations

# Visions of a and consumer electronics-industries and promises multimedia-rich millennium

With the convergence of the IT, telecoms and broadcasting industries, many organisations are positioning themselves to provide multimedia products and services to the home and business, reports Paul Taylor

between the TV and com-

between the competing aspi-

including rich web content

sion in particular represents

an exciting new opportunity.

While the BBC is working on

a range of digital audio

broadcasting, this year will

also see the launch of mass

Digital radio and televi-

direct to the desktop.

restrial television.

computing industries.

ucts and services to the home and business," says Ovum, the London-based market research firm.

"Digital TV. though essentially a new method of television transmission, has become the buzzword for a revolution," says a recent issue of Insights, a newsletter published by Booz Allen & Hamilton. "With its potential for narrow-casting, indi-vidualised viewing and full quickly, efficiently, and in interactivity, it represents an opportunity to push television into the online world. out loss of quality. This as well as hasten the develdynamic process is epit- opment of multimedia into a mass market medium. This convergence could

dramatically change traditional industry structures cables, satellites and - with new players will enter the race for 'eveballs' and previously distinct platforms will become intertwined. This is reflected in the growing number of alliances, partnerby developments in digital ships and mergers in the IT. communications and entertainment industries. Elsewhere, convergence is creating great business opportunities and chal-

> For example, Internet telephony and e-mail are chal- Carlton TV and Granada, lenging traditional telecoms business models, while web television and 'push' tech- but also faces some tough nologies are forcing broad- competition from satellite casters and information supstrategies and embrace new technologies such as digital Broadcasting (BIB) with its broadcasting, cable modems and digital versatile disk (DVD) which all promise a Midland bank, plans to revolution in delivery chan-

In the home, web televi- Cable & Wireless Communi-

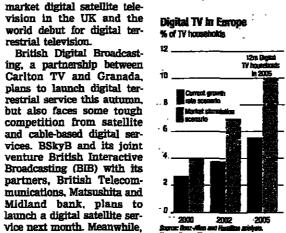
are positioning themselves sion, smart phones and low-cations unveiled plans in to provide multimedia prod-price computing devices March to provide 200 digital such as set-top boxes and cable TV channels and internet access to its 760,000 cusnetwork computers herald the arrival of the digital net-worked home. "NCs are sig-Ed Straw, a partner with nificant because they are Coopers & Lybrand's consultancy practice in London. part of the convergence

highlights the emerging puter industries and also 'platform wars' between digibecause they enable new sertal cable, satellite and terresvices," notes Ovum. NCs trial services in a soon-to-be could provide the 'bridge' published report. "Each platform has its benefits." he says. "Cable

rations of the television and has interactivity, capacity Other important indicators and telephony but the investment is high, coverage of this 'convergence' include the launch of direct satellite is not universal, it has received a bad image and services linked to PC-card adapters manufactured by their are 'nuisance factors' companies, such as Adaptec, getting connected. capable of delivering broad-"Satellite has reach and band multimedia services

interactivity and targeting another potential platform and you need a dish. Terrestrial is familiar, uses the existing aerial and benefits most from the analogue 'switch off', but its capacity and interactivity are lim-

Overall, it could be an



even race, he says. There is not a predetermined 'technical' answer and marketing quality is often the deciding

factor in such situations. In the long term, Internet capacity, it is less good on or telecoms delivery is competing directly, although the indirect competitive threat, in terms of competing for screen time, is already here, says Mr Straw.

Nevertheless, most industry analysts agree that digital TV - delivered by whatever means - has enormous potential. "Digital television will change the way we shop, the way we bank and the way we use information and entertainment," said David Coverdale of Pace, the UK-based electronics group, one of the main suppliers of the set-top boxes required to receive the new satellite, pects. cable and terrestrial ser-

However, forecasts about the uptake of digital TV, which is already available in many parts of the world, vary sharply. According to the Digital TV Worldwide 1998 report, prepared by Mar- be achieved given the high ket Tracking International, upfront outlay needed to cre- Turn to page six

the global audience for digital TV is forecast to reach 58.5m by 2002, seven times the estimated 8.4m digital subscribers at present.

"By 2002, Europe will have overtaken the US to become the largest digital market." said Adam Thomas, editor of the report. Today, the US has two-thirds of all digital subscribers, but its share will decline to around a quarter over the next four years. Europe will then have 23.4m subscribers, followed by North America (17.2m)

n contrast, Booz Allen & Hamilton notes that digital television penetration in Europe remains low in comparison with the US and there is much lower optimism about future pros-

and Asia (15.2m).

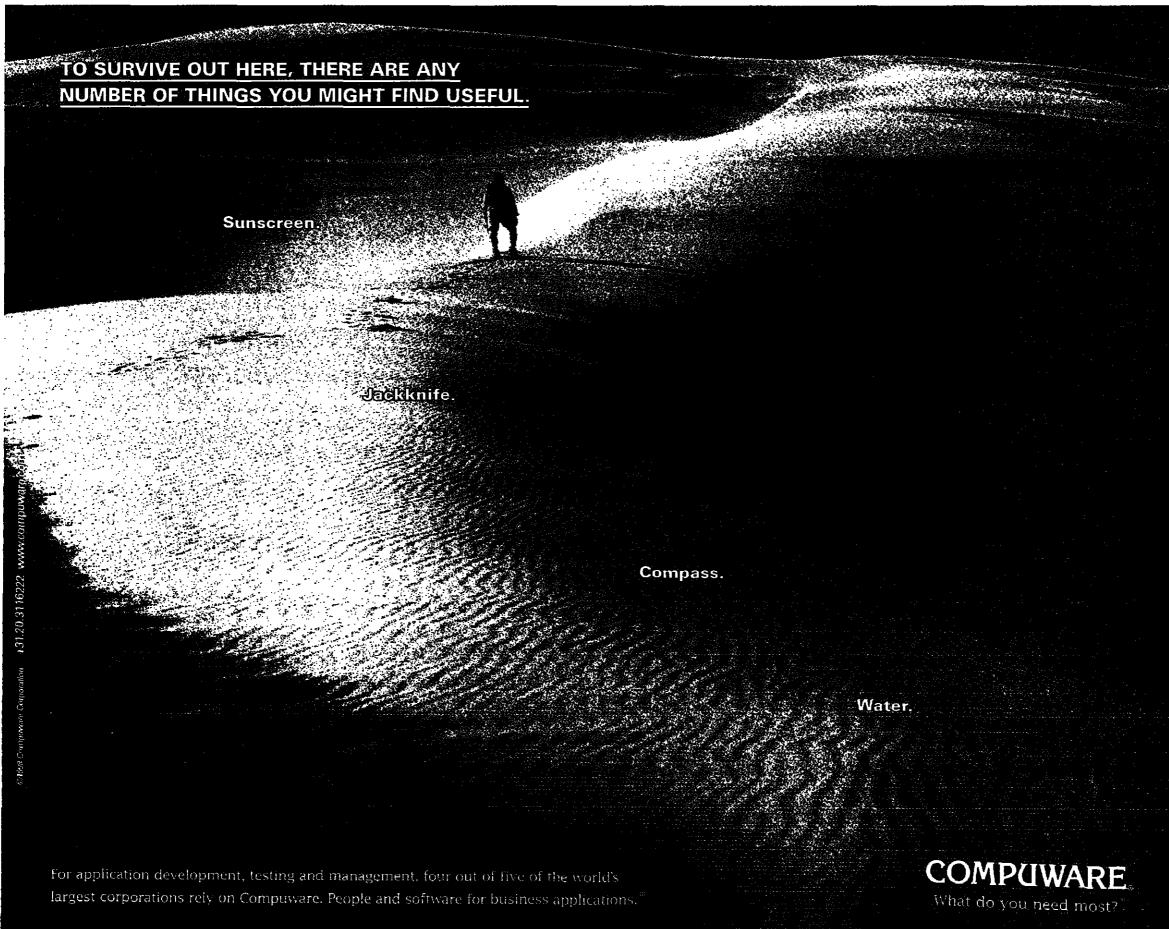
At present growth rates, access 7m homes in Europe per cent of the accessible 122m TV homes in Europe. "At this level, it is unlikely that acceptable returns can

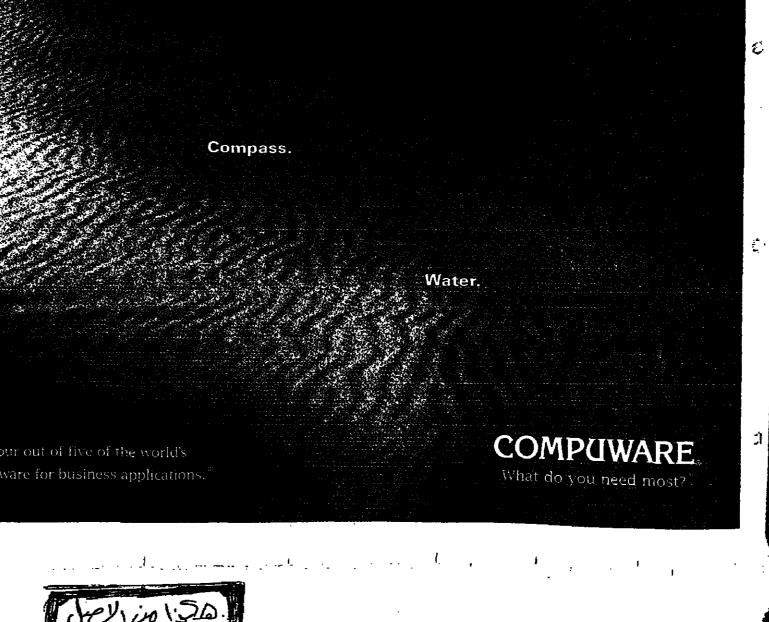
ate the platform, secure required content and acquire a customer base." warns Booz Allen.

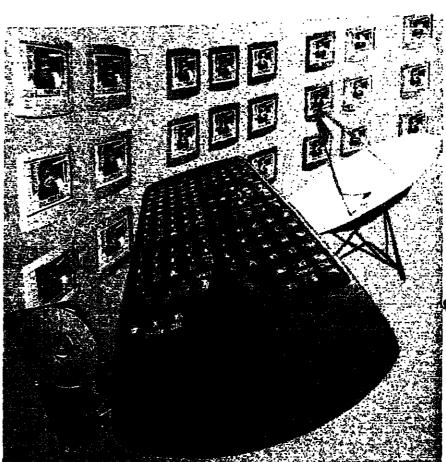
John Clements, chairman of Continental Research, the new media research specialist, writing in a recent report from Pace on UK consumer attitudes towards digital television, says digital TV offers a totally new form of TV in the future - "TV that goes beyond the bounds of entertainment into providing personally relevant information and opportunities. Post 2000, it will change the face of TV and the ways in which users interact with their TV

But he adds: "It will not happen overnight - it will be a gradual process. Even at a 'lowish price', Continental Research forecasts that fewer than 1.5m homes will opt for digital terrestrial digital TV will probably only television by 2002. "That may provide good commerby the year 2005 - a mere six cial returns, but does not mark a digital revolution."

Mr Straw of Coopers & Lybrand agrees. "Digital broadcasting is a 'hot' issue.







SIEMI NIXDO

DIGITAL SATELLITES . By Philip Manchester

# Fresh business opportunities

Digital satellite broadcasting opens the way for the business world to exploit the technology with innovative services

ver since Telstar was launched into earth orbit in the early 1960s, satellites have become an important part of the global telecommunications infrastructures.

Until quite recently, however, the main use of satellites has been for long-haul voice traffic and data reransmission. The costs of launching and maintaining satellites - together with the high cost of receiver dishes has limited their use and appeal. This is set to change dramatically as we enter the 21st century.

Indeed, the falling costs of receiver equipment and the increase in the geographical coverage of satellites has begun to tip the halance in their favour for some applications. There are several

arrived, television broadcasting has long

been a heavily regulated

industry in most countries.

revolutions in many smaller

countries over the past three

almost as heavily for control

decades, troops have fought

broadcasting centre as they

of the national television

have for the 'presidential

symbol of state control.

Equally, government

Commission (FCC) in the

United States - as well as

countries all over the world

have fought hard to make

sure that television serves

society.

'similar bodies in other

regulatory agencies such as

the Federal Communications

It is no surprise that in

increased use of satellite for domestic television signals has created a critical mass in the market which has spread set-up costs; the ease and speed of installation compared to land-based telecompetition among satellite service providers.

But the two most important factors are the high bandwidth offered by satellite and the ability to use the technology for compressed digital signals. Potentially, digital broadcasting can provide hundreds of channels through a satellite system and opens the door to many innovative services that analogue communications.

would be impossible using These factors also broaden the appeal of satellite broadcasting beyond the tradi- service will use Intel's Inter-

business to exploit the tech- with a TV broadcast signal. nology. "What we are seeing is a convergence of communications, computing and broadcast technologies. At the same time. We are starting to see a growth of multiple computing devices in the home - embracing the telephone, the television and even the automobile," explains Greg Adkin, marketing manager for concoms; and the growth in sumer products group at chip builder, Intel.

These developments are fuelling an increased demand for bandwidth which satellite technology can help to meet. "When you put a set top box on a television, you can offer all sorts of new digital services information services, education and entertainment, for

Intel recently signed a deal with the US Public Broadand video signals for transmission to set-top boxes. The

to offer opportunities for allows transmission of data time-shift feature so that you More significantly, Micro- favourite programme after soft has announced that an interruption. Or you can Windows 98, the successor to get other kinds of informaits popular Windows 95 operating environment for Inteltures to accept TV and data signals simultaneously. Mr

> Multinational companies can distribute key messages to their global workforce

Adkin sees the combination of digital broadcast technology and set-top boxes as the catalyst for all kinds of new information services.

cast System to combine data point where the broadcast signal comes in, you can start to enhance what people can do with a simple TV. reasons for the shift; the tional domestic TV market cast technology which You can, for example, use a by bandwidth limitations for digital broadcasting says Mr Wyatt. "They all

can carry on watching your tion alongside the video -say, on the soccer World Cup or stocks and shares infor-

While today's emphasis for broadcasting via satellite is on the domestic market, the shift to digital signals will also bring benefits to business. There is a strong notential market for digital broadcast satellite technology in business.

Multinational companies, for example, can distribute key messages to their global workforce. They can store broadcast messages on a tribute high-quality technical information and even like other telecommunicasoftware using broadcast sat-ellite technology, explains tions services," says Mr Wyatt. "In Europe, busiellite technology, explains By putting the PC at the Simon Wyatt, business nesses are beginning to look oint where the broadcast development manager for at this potential."

satellite services at Oracle. "The point about satellite is that it is not constricted

server for later review or dis- Digital broadcasting can provide hundreds of channels through a satellite system

Europe is particularly well-placed to take advan-

well-established standards. "Digital Video Broadcast (DVB) is a standard across Europe and the competitive environment among telecommunications, cable and sateltage of satellite technology lite companies is growing,"

because of de-regulation and want to deliver a range of services to consumers and to

> The main breakthrough is coming with the new generanow coming on stream. "The introduction of low earth orbit (Leo) satellites for services such as mobile telephony is going to change things significantly. They cost less to launch and maintain. So, in about five years' time, as costs fall, we will see this technology being used for videoconferencing, mobile telephones and other

services," he says. Leos orbit the earth at a height of about 550 miles compared to the 22,300-mile orbit used by the earlier generation of geosynchronous satellites. In addition to the lower cost in launching them, Leos have very short transmission times and need lower power transmitters although many more are required to give global coverage and the satellites have a

shorter 'lifespan'. More importantly Leo satellites offer the possibilities of interactive communications and place them in a stronger position to compete with 'earthbound' technologies such as wire and cable. The first Leo services are expected to be launched in the early part of the next century - and that is when satellite will really begin to compete with traditional

telecom services.

'AIRWAYES' IN CYBERSPACE & By Geoffrey Wheelynght

# Upheavals for the broadcasting world

Video streaming allows live programmes be watched on the Internet on dozens of Net TV 'channels' that are entirely unregulated by any national agency

seen as a vital tool in helping to sustain a sense of

national identity. Suddenly, however, these various august bodies are now having to look a lot harder at their mandate as the advent of 'netcasting' or television-style programming on the Internet and the World Wide Web changes the very foundation on which they were established. It is now possible for Internet users with fairly modest personal computers and a fast

**Broadcasting licences** have often been awarded as inuch on the merit of the Internet connection to content of a proposed of 'video streaming' television network as on its technological and financial technology that sends video capabilities - particularly in and audio data live to their countries where television is screens as it is broadcast.

Video streaming means that everything from live news programs to music concerts to awards shows internet on dozens of Internet TV 'channels' that are entirely unregulated by any national agency.

Viewers in the United States, for example, can watch television news shows from London's ITN or the **British Broadcasting** Corporation - while Europeans can watch Fox television news from the United States or from the Canadian Broadcasting receive television programs of all kinds through the use

The quality of these broadcasts does not yet match what can be achieved with a basic colour

television set receiving conventional television signals from cable, satellite or 'on-air' broadcasting. But it seems clear that the pace of change in Web-based video streaming technology should deliver TV-quality broadcasts via the Internet within the next couple of

Meanwhile, the cost of the devices needed to receive those signals is expected to come down - with some even being built-in to television set-top boxes so that viewers can watch Internet-based TV signals. And all of this is happening completely outside the framework of traditional television broadcasting regulators.

whose company holds the vast majority of the global market for video streaming software, governments are starting to take notice. Rob Glaser, founder and chief executive of RealNetworks. has seen television networks the world over use his company's RealVideo software to bring their programming to the Internet and most recently agreed to serve on a US presidential panel about the

According to the man

r Glaser says that having spent time recently with recently with officials from the FCC, he thinks the relatively relaxed US attitude toward Internet broadcasting will serve consumers well.

future of digital television.

"By and large, the US Federal Communications Commission has done a good

job of viewing the Internet as having great communications potential and has taken a really thoughtful approach to the different dynamics of the Internet," he says.

In addition, he suggests that the issue will become even more "interesting" when low-cost television 'set-top' boxes can provide users with the ability to receive Internet television programming on standard television sets, rather than requiring them to use computers to do so.

RealNetworks, in which software giant Microsoft holds a 10 per cent minority stake, has been working with the Microsoft subsidiary, WebTV, to look at ways to make this

Mr Glaser suggests that from the point of view of providing a diversity of

opinion and programming to consumers, there are few better models than video streaming technology over the Web. He admits, however, that the opposite could happen if access to 'video publishing' is

"The challenge is to make

restricted.

medium."

sure that economies of scale do not unduly favour those who can take advantage of them," he says. "There is potential for those with great economies of scale to swamp those with less developed infrastructure. You need to make sure that you not only have the 'haves' jumping in – and that there is diverse participation in the

☐ Set-top boxes, the key to digital programming: page 6 □ New services via Internet broadcasting: page 8

## **SIEMENS NIXDORF**



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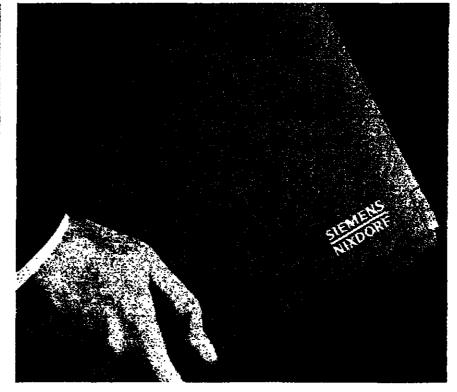
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DIRECT SATELLITE SERVICES . By Geoffrey Wheelwright

# Surge of new corporate applications

broadcasts via become viable for Regis, satellite services manstaff training

atellite-based television largely directed towards delivering broadcast TV signals and voice information from one place to another.

Increasingly, however, satellites are now being called on to deliver digital comouter data - and are changing the speed and efficiency of data delivery mechanisms for corporations in the pro-

Take, for example, the efforts of IBM to bring data to its global customers via satellite. IBM has deemed this to be such an important task that it has established extension satellite-based solutions within its IBM Global Network services

Many businesses - from automobile manufacturers to television companies - are data (including televisionquality digital video) from one place to another. According to Renaud

ager for IBM Global Services/Network Services, the power and capacity of these and telecommunicanew satellite-based digital tions has been with us data delivery systems is new satellite-based digital for many decades now, creating the opportunity for an entire range of applications that was just not previously possible.
The VSAT (very small

aperture terminal) technolnogy that is increasingly being used to bring data from satellite to computer will change the way that corporations think about using their global networks, he

We are now at the point where VSAT can represent an economically viable and feasible alternative for corporations to use worldwide. continent-wide or countrywide." he adds.

"We are steadily moving towards multimedia for new high-bandwidth applications ones that were previously not feasible or cost-justifiable with past technologies." One of the previously moving vast unjustifiable applications



satelite-hased communications are opening the way for

was the creation of internal seven TV channels a day. corporate 'television net-"Distance learning is going to be an important applicaworks' at large companies. tion for satellite technology maker Ford in the US, Mr in the years to come - every Regis suggests that it is now company has a compelling possible - and even attrac- need for training and retraining their people over tive - for companies to use an internal, digitally-deliv- and they need to do this ered corporate television cost-effectively," say Mr broadcast system via satel-Meanwhile, IBM's largest lite as a way to bring trainclient for this kind of appliing and corporate sales

materials to employees. "More and more companies are getting into this though not necessarily broadcasting 24 hours a day." he explains.

signed up to use a VSATbased system to enhance Ford in the US is using it communications with 4,200 only for business purposes independent automobile and training 6,000 dealers, currently running six or

Citroen.

While viewers will have a vast range of new digital channels, advertisers see the prospect for more precise targeting, with interactive services

DIGITAL TERRESTRIAL TV . By Michael Dempsey

offer huge rewards

Despite talk of 100 or more

channels under the new

regime, BDB regards 30

channels as a manageable

TV will adopt a raft of new

tude of potential consumers

- is the subject of great

debate. The volume of

reports and comment on this

ing: one contributor to this

argument is the Cap Gemini

Broadcasting

technology to

executives

speak of a

give them

control over

'eveballs in

points out that the improved

signal from digital television

"is not a huge issue to UK

the home

the next 12 months.

sue is almost overwhelm-

The exact way in which

choice for the consumer.

taken digital technol-✓ ogy way beyond consumer electronics. The convergence of information and communication technologies and so many other industries is now well under way in the most potent entertainment medium of all.

Conventional television signals are transmitted by radio wave in analogue form. Digital TV compresses that signal, cuts out repetition and allows several programmes to be broadcast on the same frequency. It also has the potential for improved picture quality.

The possibility of interactive services, with viewers arranging their individual running order of proammes or chasing up more information on an advertised product, has generated huge commercial interest.

In the UK, British Digital Broadcasting, a joint venture by Granada and Carlton TV. will broadcast to homes without satellite TV aerials. "It's going to be very easy to install. You just buy a set-top box and plug it in. There's no dish and no cable," a spokeswoman

Grundig, Pace, Philips, Nokia, Sony and Toshiba have signed up to manufacture BDB's 'plug in and play'

BDB's research indicates that three out of four UK homes do not have cable or satellite TV links, making 17m homes "virgin for the digital market". Across Europe, 60 per cent of homes do not have multi-channel access via cable or satellite. In the US, this figure is much lower, at 30 per cent.

BDB says its research shows that 63 per cent of the consumers", who already development in telecoms and 17m homes in Britain are enjoy a good service from media, works very closely prepared to pay for more analogue TV. It is the scope choice on terrestrial lines, of the new service that will structure development that is potentially a huge prize

seen its turnover plunge

decline in revenues is part of

a plan to redirect the ener-

gies of UniView Technolo-

gies Corporation into a

dynamic emerging market

that may dominate the con-

sumer electronics and IT sectors in the next century. UniView owns Curtis

Mathes, a name that was

prominent among US TV

manufacturers. Until two

years ago, it made expensive

high-end TVs. But Mr Custer

has no nostalgia for this

past. "We still own some

patents, and being in that

business helped us to under-

stand the TV viewer," he

Today, Mr Custer's preoc-

cunation is with the world of

the set-top box. In theory,

the set-top box is a beauti-

fully simple idea: take one

device that mixes and

matches digital signals from

first owning a computer.

conventional terrestrial

land-lines, cable or satellite.

It is the device that the

viewer turns to in order to

manipulate the vast, and

potentially confusing, choice

UniView is licensing its

phone companies. Mr Custer

believes that his organisa-

tion enjoys an advantage by

concentrating on the design

and licensing of devices that

boast telephony features

such as speaker phones: By

pushing a button on the

remote control, a user can

hear a telephone caller over

the TV speakers. The famil-

iarity of telephone controls

may be a powerful selling

tool as companies battle to

entice consumers into a new

range of entertainment prod-

UniView is working with

Acom.

that digital TV offers.

"You will get an almost limitless number of channels. For the advertiser, this means precise targeting. with interactivity making those adverts more effec-tive," says Mr Moroney. tic market of 11m homes.

Domestic market may

The opportunity of digital TV also brings the danger of diluting the impact of advertising if the segmentation is not effective, according to Mr Moroney.

US-owned Symbionics, a £12.5m company, with offices in Cambridge in the UK. is a design services business that is cashing in on the demand for digital TV products. Its customers include Ericcson and Sonv. Symbionics' interest is in

Group which this year forethe production of devices that consumers will want to cast that the demand for interactive shopping services use. Henk Koopmans, the marketing director, argues that simplicity of design is will propel digital broadcasting to prominence during key to making consumers adapt to interactive services: "There are a hillion TVs out there, but only 100 million PCs. The new generation of TVs will have the processing power of a Pentium PC, but just presenting the user with a keyboard won't work. You must give them something like a telephone, with around eight keys and a straightforward interface. Anything more complicated won't work."

The business software giant, Oracle, has a 60 per cent holding in a joint ven-While the move to digital ture with Netscape, the services will boost spending Internet software developer, by new TV companies on aimed at developing software for the digital TV ecuipment, the advertisers industry. Network Computeager to exploit the new medium will be installing ing Inc (NCI) is based in Calcall centres and technical ifornia on the same campus support services to back up as Oracle's world headquarproducts sold via expanding ters, but in a separate buildmenus on offer to viewers. ing, emphasising the dedi-John Moroney, a telecoms cated mission of an consultant with the high organisation that will pour technology analysts, Ovum programming into set-top

> Stuart Mitchell, Oracle's UK director of business with NCL He says the infra-

of digital channels is impresive. "The market is alread worth \$100m in Europe this is real money. The did. tal broadcasters all need in uperade their networks and station technology.

oictures

Oracle is using its track record in the large comme cial database software ma ket to promote applies that contain visual imate Online banking and educational services are potes tially lucrative for the sofware industry, Mr Mitchel

"People who want to offer services over the digital ne work need tools to goven what the customer will set The object of the toolset we quicker and easier to make

Acorn Group has taken the logical step from Pc manufacturing to making interactive digital TV set to boxes. Andy Mee, vice presi dent for business develop ment, is a sceptical voice among the market optimist He points out that users an happy to work on an interes tive level with a PC because of its physical proximity, two-foot experience" while TV viewing takes place a greater distance - "a ten foot experience" - and does not easily lend itself to inter active services.

"You will not see a sudder surge in interactive service until the providers can dem onstrate a clear benefit." he predicts.

The broad spread of play ers in this market underline the size of the rewards in a commanding role in home entertainment and busine The personal comput commands the attention 'evehalls in business': how ever, in the digital broad casting world, executive talk of acquiring a technology that will give them con trol over 'eyeballs in the home'. This domestic market

1517

.

### Common standards are crucial

From page four:

but it will evolve over time." he says.

Crucially, he argues that the speed of uptake will depend upon the adoption of common standards. As he notes in a earlier report, "standards wars, driven by nationalism and corporate xenophobia, have made industries and broken com-

The standards issue revolves around what Booz net. Allen & Hamilton defines as

decoder, conditional access system, subscriber authorisation system and subscriber management system.

European broadcasters. technology groups and regulators took a significant step towards avoiding conflicts when they agreed in September to work together to set open standards for the next generation of set-top boxes. carrying not just digital TV signals but interactive multimedia services and the Inter-

The agreement, reached in the digital platform - the Geneva by the steering com-

mittee of the Digital Video Broadcasting consortium, built on earlier joint work among the consortium's 200plus members on setting the European digital transmission standard and brought brings together media, public broadcasting and telecom groups, plus computer giants

and IBM.

But other standards issues remain, including the choice of conditional access technology, which could delay deployment and cause cus-

Microsoft, Intel, Motorola

the arrival of mainstream digital TV will probably involve both successes and failures.

cation in Europe are French

vehicle makers, Peugeot and

Three years ago, Citroen

"As with satellite TV, the brave - or at least some of the brave - will benefit," says John Clements of Continental Research. "There will be new Mur-

dochs', new 'Gates', but as yet it is early days to say what services they will provide that will take advantage of the technology opportunities opening up in the new

SET-TOP BOXES . By Michael Dempsey.

Patrick Custer is the Chief executive of a Company that has The key to digital three years. Most top executives in his position would be extremely anxious. But

Set-top boxes will allow viewers to break out of conventional programming and join the Internet without first owning a computer

Microsoft. Along with Sun and Oracle, Microsoft bought into the digital TV and settop box market in 1997.

The potential for expanding digital information into the domestic market while bypassing the conventional PC means these IT giants could not afford to ignore the set-top box.

Andrew Wallace, Pace marketing director, is looking way beyond the UK market. Most of the 1.5m digital set-top boxes priced at up to £500 each that Pace has sold have been destined for South America and Asia. "In France, the broadcast-

different sources: then connect it to a TV set and allow ers are already offering interactive services for conventional programming sporting events such as the and join the Internet without soccer World Cup and cycling's Tour de France," he The set-top box is the key to opening up digital programming, whether from

ace boxes are promoted through the Canal Plus subscription channel. Mr Wallace recently visited the conference of the US National Association of Broadcasters. where digital TV and Internet access via the TV were set-top box designs to other companies, notably telekey themes. But he is cautious about the immediate prospects for a world of TV viewers logging on to the Internet. "Net access through set-top boxes is not going to be explosive in the coming year. Interactivity needs to be carefully

designed," he says. At Microsoft, 600 of its 13,000 employees now work on services for its WebTV operation, one of the three IT industry TV 'purchases' of 1997. WebTV connects the viewer to the Internet without a PC, with a WebTV terminal incorporating Microsoft software available from IBM. \$99, plus \$22 per month

other high-technology players such as Motorola, Lucent rental including service. Technology and the UK's "Our experience to date is The set-top box market is truly international. Pace Micro Technology is a £200m

that WebTV reaches people that PCs don't," says Judy Gibbons, director of online services at Microsoft UK.

UK company that is one of Lining up against Micro-nology is emerging, despitive suppliers appointed by soft is Sun Microsystems. cautionary noises from some Sun acquired Diba, a Silicon Valley start-up operation, in last years' buying spree. At the same time, Oracle pur-

> of Netscape.
> Joe Gillach, a Sun marketing director, was vice president of marketing at Diba. "All three small companies, Diba, Navio and WebTV, were doing the same kind of thing." Mr Giliach recalls. "The summer of buy-outs was a recognition on the part of Sun, Oracle and Microsoft that the concept of an alternative platform in

> the home was compelling." Three small operations, with around 100 employees each, had sparked a lot of interest. For Mr Gillach, the big question is pricing. "Can you bring the cost of these

devices down to \$200?"

Prominent US research group Forrester has spoken of IT companies praying for a new generation of "mouse potatoes" surfing the Internet in the same manner as compulsive TV viewers. But engine software for set-top Mr Gillach thinks the set-top box audience will not want to arm itself with computer mice. "Look at a kitchen blender: that's the sort of device that consumers will pay for because it's easy to

Ease of application is core to the Java programming language from Sun. Aimed at allowing developers to turn around quick new products for consumer devices with computer chips, Java should have a bright future in the world of the set-top box. Chips incorporating Java technology are now being licensed by electronics-related companies as diverse as Korea's LC and

As a recent recruit to the world of Sun, Mr Gillach takes a relaxed view of Java: "Java chips are just emerging as powerful and cheap

Will they come to power

set-top boxes? "This marks was never going to mature as fast as people forecast but then we never claimed it would," he says.

The user-base of this technology is emerging, despite analysts. Margaret Fitzer ald, a 76-year-old epithusias from Massachusetts, has been subscribing to WebTV for the last year. My chilchased the Navio subsidiary dren and grandchildren are spread across five states and two continents. I-keep in touch with them all vis my

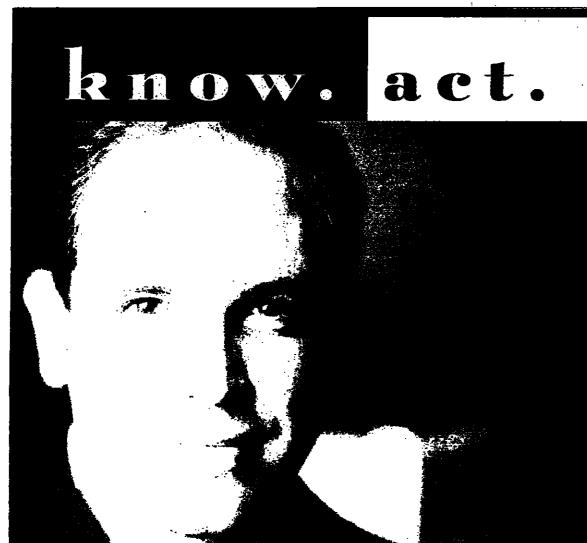
television screen." Mrs Fitzgerald sends about ten e-mails a week through her WebTV, discor the system and bringing with her when she travels to Florida for the winter months.

Mrs Fitzgerald is typical d emerging consumer group who may be the true chan pions of the next general of products from an industr) that cut its teeth in a youth ful market Forrester Research speaks of "neohearthminders? - parents who will subscribe to the Internet and interactive TV services to boost their children's education.

Spyglass, a \$20m Chicago company, supplies search boxes, allowing the TV set to decode and display informs include the Internet

David Herris Evans, But pean managing director the company, thinks that it will take more than the preence of big-name IT compa nies to make the compu and the TV converge. "Or cle and Microsoft have invested vast soms of money. But a consum ket is very, very different from an IT market," he observes. "I'm not saying Internet TV toon I happen but it won't be the first thing consumers want."

The set-top box is clearly here to stay. But the uses will be put to are not a obvious. Grandmothers and dedicated parents will opt for services that apply ! their lives. These may not be exactly what the prophets of TV and PC convergence have in mind.

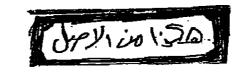


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Hi-TV was named trans-

mission system of the year

last September by Interna-

tional Broadcasting Maga-

zine, an industry publica-

tion. In April, MCI of the US

used it for the first ever live

digital High Definition Tele-

vision [HDTV] broadcast of a

baseball game between the

Texas Rangers and the Chi-

cago White Sox. With Hi-TV, ECI hopes to

create an alternative to sat-

ellite broadcasting of live

sporting events from sta-

dium to studio. They are

also targeting television,

try professionals, who must

work with top quality mate-

Hi-TV could put an end to

the cumbersome and costly

practice of sending film and

video back and forth by cou-

rier from one studio to

"Introducing telecommuni-

cations to the television pro-

duction industry could have

industry as it has had on

banking, insurance or mak-

director of ECTs broadband

The facility that makes

eration of easily accessible

broadband networks. As in

all data communications, the

key to success is compres-

multiplexer business unit.

another.

rial during production.

DIGITAL AUDIO BROADCASTING . By Geoffrey Naim

# Coming soon: radio with pictures

As well as offering improved sound quality, digital audio broadcasts will offer text and images relating to individual programmes

owly fade away. But how to change this time-worn medium without alienating the millions of loyal listeners who treat radio as a faithful companion?

Digital Audio Broadcasting (Dab) aims to achieve this delicate balancing act, eliminating analogue radio's drawbacks but without abandoning its many advantages, such as low cost, small size and ease of use. Dab is seen by most broadcasters as the future of radio as it makes more efficient use of crowded airwayes and provides CD-quality sound that is noticeably better than an FM analogue broad-

The in-studio technology used to edit and produce radio programmes is increasingly digital - and full digital broadcasting, using the Dab standard, is seen as the logical evolution.

"Digital technology is transforming the broadcasting industry," says Clyn Jones, managing editor of BBC Digital Radio.

As well as offering better sound quality, Dab allows broadcasters to transmit text or data relating to the programme, so listeners could read - on a small LCD screen - the plot line for a radio serial or see artist, title and composer details for the song currently playing. A more ambitious use would ional video accompanying a affordable Dab receivers for

The limited bandwidth of

n an age of digital televi- endless, broadcasters claim. sion and the Internet, and pilot broadcasts in sevradio broadcasters know eral European countries they must innovate or have demonstrated the feasi-

bility of these new services. However, broadcasters are frustrated by the manufacturers' continuing delays in launching Dab receivers for the consumer market. "Until we know what 'box' will be used, it's difficult to design

services," says Mr Jones. Prototype Dab receivers have existed for some years. Grundig, the German manufacturer, has demonstrated a Dab in-car receiver that car be attached to a monochrome or colour display similar to a miniature TV. But such prototypes are pricey and manufacturers have traditionally been reluctant to begin volume production of Dab products which would bring down prices - until the population covered by Dab broadcasts

Mr Jones claims this point has now been reached in several countries. The BBC. which has been running DAB broadcasts since 1995 claims its Dab transmitters can now reach 60 per cent of the UK population - more than 30m people.

reaches a sufficiently high

in the coming months. Sweden, another Dab pioneer, aims to reach 75 per cent coverage with its national Dab service and 55 per cent with a regional service. But the number of people who today hear Dab broadcasts can be counted in hundreds rather than millions because of the lack of consumers to buy.

Dab cannot support moving come this summer when images so, instead, a 'slide radio makers such as Grunshow' approach is used with dig, Kenwood, Pioneer and images changing every ten Clarion say they will start allow PC users to listen to already carrying the broadseconds. The possibilities are volume production of Dab the radio whilst working on casts of a dozen local FM Broadband issues: Page 8



The shape of things to come: this BBC digital radio receiver has a multimedia screen on top for displaying text and images. The BBC worked with the IDEO design consultancy to produce this concept radio. Also featured here is a mini speaker, linked to the receiver by an infra red signal

dow on the screen.

the US and Japan.

Dab was developed as a

European standard and its

influence has spread further

afield as broadcasters from

South Africa to South Korea

see in DAB the future of

radio; the only important

markets that have not com-

mitted to the standard are

One of the principal

advantages of switching to

Dab is that a single fre-

stereo or 12 mono services, or any combination in

between. So, six stereo sta-

tions that today each require

a dedicated FM frequency

can be combined on a single

car radios. Sets for the home should not be far behind and gramme-related data - such Bosch recently demonstrated portable Dab radio with LCD screen similar to a cellular phone.

The in-car market initially offers most interest to Dab manufacturers, as buyers are used to paying steep prices for high-quality in-car

> The in-car radio market offers most interest to the makers of digital audio broadcasting systems

entertainment. As well as CD-quality sound, Dab broadcasts are virtually immune from interference and fading. So programmes are not suddenly lost when the car passes through a tun-The big step forward could nel or under a power lines. Another promising Dab product is a plug-in receiver

card for PCs. This would

By moving national and handful of Dab multiplexes. governments could free frequencies in the crowded FM band and ultimately pull the unlikely to happen for a decade or so. In the UK, two pilot Lon-

digital multiplex.

don-only multiplexes are Jones.

a spreadsheet and view proradio stations. But Dab also allows broadcasters to go as song details or competibeyond audio and use some tion rules - in another winof the multiplex capacity to transmit data that is not

related to programming. GWR, an independent radio group in the UK, has performed test Dab broadcasts of financial data and digital video - the quality of the video is similar to that advertising and film indusachieved over the Internet.

The World Dab Forum, an umbrella organisation set up to promote the standard, carried out a consumer study last year that showed 37 per quency - called a "multicent of households in Europe plex" - can carry up to six would be "very interested" in buying digital radios, which amounts to around 33m families.

The respondents were also prepared to pay substantially more for receivers with Dab facilities - up to 50 per cent more for car radios local radio stations to a and hi-fi systems, and around twice as much for portables. But until products are widely available in stores, the industry does not Hi-TV possible is the prolifplug on analogue radio know whether these intenbroadcasts - though that is tions will translate into much-needed sales. "The next step is in the manufacturers' hands," says Mr sion.

However, smooth transmaterial, says Cramer, poses of synch.



Hi-TV is finding favour in sports broadcasting. Pictured here are Brazilian players, winners of the 1994 soccer World Cup. The next World Cup will be this June - and the June 2 FT-IT Review will

carry a special focus on the impact of IT in sport a different challenge than broadcasting to a mass audi-

ence. This is because for a mass audience, which will only watch a program once, sacrifice quality by compressing the broadcast tightly. Devices that handle this end of the broadcast involve relatively low bit

### Quality level

Transmitting for professionals demands high quality throughout the process, however. "When you are going to go through successive chains of editing - compressing, decompressing and recompressing - you lose quality," says Mr Cramer. "After about eight times, it looks awful."

the same impact on the Devices for high quality broadcasting must therefore ing motorcars," says Jonabe capable of handling high than Cramer, managing bit rates, he explains. because only light compression is tolerable.

When big 'chunks' of television travel over a shared network, however, addi- says Mr Huffman, "ECI tional problems emerge. For knew more about the televiexample, when lines become clogged with other data, digi- cast equipment manufacturtal TV broadcasts can 'get the jitters' [industry jargon]. mission of high quality throwing the broadcast out

ECI designed its system with quirks like this in mind, drawing on its experi-Indeed, Hi-TVs technology is broadcasters are willing to an adaptation of DCME, telephony compression products in which ECI is a world market leader.

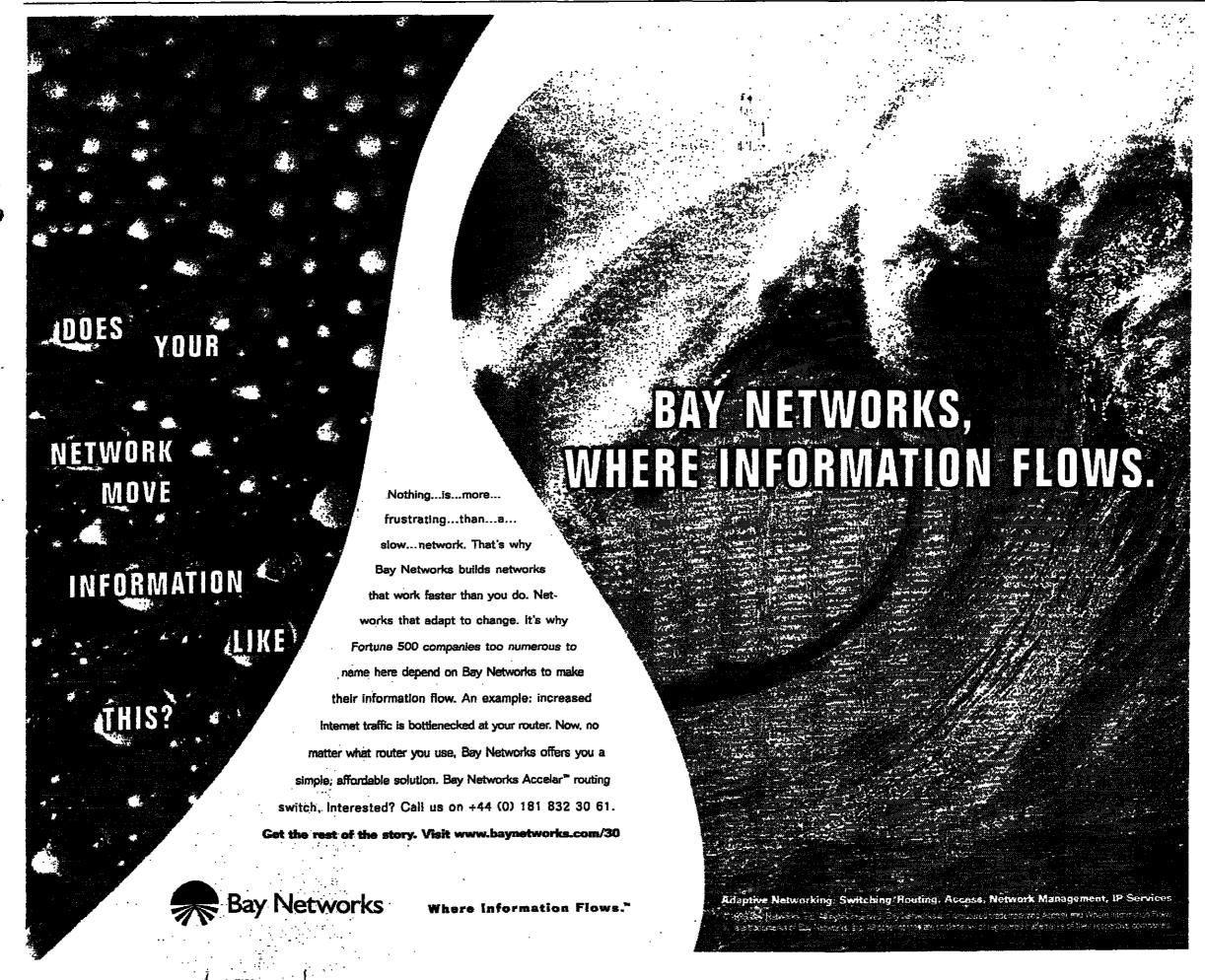
Industry analysts estimate the nascent market for highend digital broadcasting equipment could be worth between \$200m and \$500m a year. Hi-TV's main competition comes from Sony. Lucent Technologies of the US, and Nortel of Canada. ECTs edge is confirmed by MCI, which along with seven other companies, is participating in a three-year. \$60m HDTV project backed by the US government that will end this September.

Fred Huffman, senior engineer at MCI, says ECI is cheaper and faster than the competition. Before choosing ECI, proposals were considered from manufacturers of both telecoms and broadcasting equipment. "When you looked beneath the surface. sion world than the broaders knew about the telecoms

Avi Machlis

to digital mning

Fig. C. Mal



**BROADBAND TECHNOLOGIES** • By Tom Foremski

# Aiming for faster Internet access

Each country has its own type of communications infrastructure which will determine which broadband technology will be dominant

offer tens of millions of customers faster internet access and telephone line modems band technologies.

Leading US computer companies are helping to promote broadband technologies as they eye opportunities for software and hardware sales. And Internet firms are preparing every home to install ADSL new types of web-based content such as digital televi-sion and CD-quality music switching offices," says Will piped into customer's homes through faster Internet connections.

There are two main US initiatives, with one camp pushing cable TV modems while a rival camp is promoting ADSL (Asymetric Digital Subscriber Line) technologies which operate over regular telephone lines.

Until recently, most induswould win the battle against

S telephone and ADSL modems. cable TV companies advances in ADSL technolare gearing up to ogy, called 'splitterless ADSL', have changed those forecasts. The advantage of through inexpensive cable splitterless ADSL is that there is no need for a separate line 'splitter' separating voice and data calls on the telephone line.

"Splitterless ADSL represents considerable costsavings for phone companies, otherwise they would have to send technicians to and they would need more Strauss, president of US market research firm. Forward Concepts.

Splitterless ADSL, also called DSL Lite or Consumer DSL (CDSL), offers bandwidth of up to 1.5 Mbits per second, more than 50 times faster than current 56 Kbit modems. Although cable modems potentially offer speeds of 4 Mbits and more, try observers were predict- that bandwidth is usually ing that cable modems shared between many users on the same cable circuit.

backing of Microsoft, Intel and Compaq Computer. The three companies have set up a consortium called the Uni-But versal ADSL Working Group and have persuaded GTE. Ameritech. BellSouth. Ameritech, SBS Communications, and US West, four of the five largest regional US telephone companies to support the technology. The goal is to offer standard Consumer DSL modems for about the same price as a

traditional modem, and one

computer store. Forward Concepts had originally predicted that cable TV-based modems would win the lion's share of the market, compared with ADSL. in a report published late last year, Forward estimated that by the year 2002, there would be about 7m US users of cable modems, four times the number of ADSL modem users. But Mr Strauss concedes that the gap between the two will be much narrower if CDSL modems become widely

The Universal ADSL Working Group has adopted DSL technology developed

available.

received the heavyweight modulation technique called Discrete Multi Tone. CDSL offers downstream speeds of between 512 Kbits to 1.5 Mhits, and 128 Khits and 384 Kbit per second speeds upstream, roughly equiva-

lent to a T1 line. "Our DSL Lite technology clearly moves DSL beyond the realm of a telecommunitoward that of a PC modem. said Jim Bender, CEO of

The involvement of that they can buy at any Intel, Microsoft and Compaq in sponsoring broadband communications technologies is self-serving. Intel wants to ensure that there will be demand for high performance microprocessors, and a technology such as CDSL will provide a need for more powerful PCs, which in turn will benefit Compaq, the leading vendor Microsoft benefits from

> every PC sold and it is also customer demand. making a big push into online content delivery. To really exploit the potential of that, Microsoft needs bigger data pipes into the home, hence its support for cable modems through its \$1bn

Splitterless ADSL has by US firm Aware using a investment in the US cable TV company, Comcast, and

have a little concern about in proceeding fast enough it is communications technology, being able to connect up these machines at very fast speeds," said Microsoft chairman Bill Gates at a conference for investment bankers in San Francisco.

There are still significant technical challenges to be dealt with for both CDSL and cable TV modems. For example, cable TV modems are sensitive to interference picked up through leaks in cables, which can then be amplified within the net-

work. The success of these broadband technologies also depends on how aggressively telephone and cable companies move. US telephone companies' commitment to faster Internet access through ISDN, has been disappointing, showing little enthusiasm despite strong

Similarly. US cable TV companies have spoken about adding fast Internet access services but have been slow to exploit the potential business opportuni-

"With the involvement of Intel, Microsoft and Compaq "If there is any area that I the phone companies are being pushed to be more Strauss. "The phone compa-nies have been holding out because of the lack of standards, but this is now chang-

> Over the short term, cable modems are expected to generate an early lead over ADSL, because cable modem industry standards have already been developed by the Multimedia Cable Network System consortium.

"The business model for cable modems is much more attractive," says Mike Valiant, product manager at network equipment firm 3Com. "Basically, for a cable company to offer cable modem service it needs to deploy head-end equipment which enables a high speed downstream service to be offered to its customers. This equipment is relatively low cost as cable moderns work on the basis that the infrastructure is shared by many hundreds of users."

Each country has its own type of communications infrastructure which will determine which broadband



making a big push into online

technology will be dominant, says Mr Valiant. For example, in the UK, only about 16 per cent of homes receive TV programmes through cable, compared to about 95 per cent in Belgium. In Finland, companies can rent telephone lines from telecom companies and offer ADSL vices, but in the UK, British Telecom does not allow these kinds of services from third parties.

The key word is competition: if there are companies in each country providing a variety of either cable or ADSL-based services, consumers and businesses will benefit from fast Internet FT web site wins high ranking

· Market feel

FT.com, the Financial Times web site, has become the most popular Europeanbased news web site. according to the latest Hot 100 rankings. It was already the most popular non-US pased finance site.

Following its redesign four weeks ago, FT.com jumped 14 claces to number 15 in the April listings of news sites. That took it for the first time above rivals such as the Sectronic Telegraph and the (London) Times.

The site has doubled the number of page views that I serves in the past four eeks. "A key aim of the redesion was to make It easier for our users to move pround the site and discover more of both the quality and quantity of what's there," savs Paul Maidment, editor of FT.com. The rankings are compiled by Web21, a Californian online company that counts web traffic. Rankings are dominated by US sites, lad by CNN, USA Today and ABC News. Apar from FT.com, only two other non-US sites. The Age and The Sydney Morning Herald, make the top 15 news sites

for the month. ☐ The Hot 100 rankings: http://www.hot100.com

**INTERNET BROADCASTS** 

# Webcasting heralds many new services

TV and film companies are taking the Internet very seriously, reports Joia Shillingford

treaming audio and Video down the Internet promises to deliver a wide range of new services to both businesses and consumers. "Audio and video are

already happening on the Internet," says Paul Ayres, European managing director of the US company, RealNetworks, "and as time goes on, webcasting will become increasingly

RealNetworks, which produces audio and video software for the Internet, is already working in the UK with companies such as ITN. the BBC, Capital Radio and the British Film Institute. "ITN regularly broadcasts news headlines over the Net and the BBC puts out the entire contents of the Nine O'Clock News," says Mr Ayres.

UK radio stations Virgin Radio and Classic FM are on air and on the Net at the same time. And, in the US, TV channels, such as CNN and Fox News, broadcast live on the Net at the same time as they broadcast to TV viewers.

A number of companies are also broadcasting training videos, the thoughts of the chief executive, or public shareholders' meetings over their company intranet (or private Internet). For example, the aircraft company. Boeing and technology companies Bay Networks and Sybase, all broadcast video over their intranets.

The research company Gartner Group webcasts (or broadcasts over the Net) to selected audiences. Last month, it webcast video and audio from its conference. 'Gartner Group Predicts: The IT Marketplace, in San Diego, to customers world

### Benefits

"Traditional broadcasting is linear." says Ayres. "The Net is interactive. It lets users select the stories they want to watch, in the order they want to watch them.

They can also mix and match, getting their sociopolitical news from the BBC and their world news from CNN. Users can get the TV and radio stations they want from anywhere. An expatriate Englishman could watch the Nine O'Clock News via the Net from Nairobi.

"The Net increases the TV and radio footprint," says Mr Ayres. "Longer-term. this will command a fee.

To receive audio and video information over the internet, a user needs a multimedia PC with speakers. Internet browser software and audio/video

software. Ideally, the PC should have at least an Intel Pentium chip inside. The good news is that the audio and video software, such as RealNetworks' RealPlayer can be downloaded free from the Internet. Once downloaded, the software sits in the user's internet

Then, when the user connects to the Internet to watch a programme, a channel is created between the user's PC and the broadcaster's server computer. This is known as streaming video. Instead of a user downloading all the images to a hard disk and then watching them - which would be slow and require a huge disk - the user watches them stream past.

The images are compressed, sent over the internet from the broadcaster's computer then decompressed at the user's end, otherwise they would be bulky to transmit. The quality of image that can be received using streaming video varies.

A user with a modem (a communications device) operating at 28,800 bits per second, can receive audio and video at 6-8 frames a second. This compares with 28 frames a second for commercial television and 30 frames a second for the

"The quality depends on the type of image being received," says Mr Ayres. "With news, the background changes little and you can get something eminently watchable."

Users might, however. find it disappointing after conventional TV. The advent of a faster moden standard X2. giving 56 kilobits a second, will provide a frame rate approaching 12-15 frames a ond. Or with higher bandwidth technologies, 30 frames a second.

Higher bandwidth technologies include T1 lines (in the US), cable modems (for use over cable TV networks) and XDSL, a technology for providing higher capacity over standard analogue phone

The biggest supplier of audio and video software to Internet users is RealNetworks, Mr Avres says 40m copies of its software (some just for downloaded from its www.real.com site. Of these, 12-15m copies are of its latest video software.

RealNetworks recently acquired Vivo software. another leading Internet video company. It is also in what it calls "co-opetition" with Microsoft.

"Microsoft has bought the rights to our technology and is embedding it in a product of their own," he adds. In the future, users will even watch films over the Internet, suggests Mr Ayres When the company

Turn to facing page

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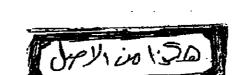
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DIGITAL VERSATILE DISK INDUSTRY . By Geoffrey Naim

# Market fears an outbreak of 'format wars'

Sales are hindered by consumers' uncertainty over two rival formats for DVDs in the PC market

The launch of Micro- forecasts of the DVD indus- video. Warner Home Video operating system is awaited by many, but perhaps most eagerly by the digital versatile disk industry, which hopes a new gen-eration of Windows 98-equipped PCs will stimulate sluggish sales of DVD drives

Windows 98 is Microsoft's first operating system optimised to work with DVD and the industry hope the arrival of Windows 98 will encourage PC users to upgrade to new computers fitted with DVD drives.

Some PC makers - such as IBM with its Aptiva range bave offered DVD drives on selected models since 1997. but the arrival of Windows 96 could see DVD drives rapidly supplant the traditional CD-Rom drive as a standard device on new PCs. Compaq says 70 per cent of its new PCs will come with a DVD drive by the end of this year.

"I take that figure with a pinch of salt," says Ted Pine, president of Infotech, a US market research company. Analysts have grown accustomed to the over-optimistic sumer awareness of DVD-

soft's Windows 98 try and note that three years announced last month it after first being unveiled, DVD is still struggling to make an impact in the PC and consumer electronics markets.

Infotech says only 300,000 DVD drives for PCs were sold last year compared with initial forecasts of twice that In the consumer market,

where DVD-video disks are being promoted as a replacement for pre-recorded video tapes, the disappointment has been even greater, given the industry's high hopes of a sales bonanza in the run-up to Christmas 1997.

According to Infotech, just 230,000 stand-alone DVDvideo players were sold in 1997 in the US. "DVD-video did pretty well, but it failed to live up to the most hyped expectations," says Mr Pine. A DVD-video disk can be

played on a stand-alone fitted with DVD drive. The rental. latter can also load software from DVD disks formatted to the DVD-Rom standard. In an effort to spur con-

would allow video stores to rent out players so that consumers could experience the superior picture quality and sound claimed for DVDvideo. Consumers are increasingly reluctant to buy untried technologies, fearing another outbreak of the "format wars" that have plagued the consumer electronics industry.

there is already a rival incompatible technology. Divx. This is a pay-per-view system developed by Circuit City, the largest consumer electronics chain in the US. and backed by several film studios which prefer Divx to DVD-video because of its ability to deliver a steady rovalty stream.

Each time a Divx disk is played, the Divx player dials a central database and deducts the consumer's DVD-video player or on a PC account with the appropriate

"We remain especially excited about the possibilities for Divx," says Richard Sharp, Circuit City's chairman and chief executive offi-



onic's DVD 'home theatre' system uses a 12cm disc that holds a two-hour feature film; although the DVD looks like a CD, it is capable of producing circane-quality sound and pictures

Industry experts say the uncertainty caused by these in the consumer market is be available on CD-Rom, so a

cer. Analysts are not so sure. hindering DVD's chances in DVD drive is not essential to "Divx has received an inordi- the PC market. If few DVDnate amount of attention in video titles are available the industry but it has not because of poor sales of yet made its case to the public," says Mr Pine of Info-users will see less reason to pay the premium for a new PC with a DVD drive, instead of a conventional CD two rival video disk formats drive. Windows 98 will still

use the new operating sys-

Given the incompatibility problems that have plagued early DVD drives, many PC buyers may prefer to continue using established

CD-Rom technology. The same issue affects the makers of "jukebox" prod- DVD-Ram, that aims to

ucts that traditionally use address the big criticism of CD-Rom drives. One such is CD-Rom - the stored data Kodak Business Imaging can only be read; it cannot Systems whose latest jukebox uses two CD-Rom drives with 54 CD slots to manage 35.1 gigabits of information. Colin Cooke, European marketing manager, claims the product is "DVD ready", meaning it is compatible with DVD drives, even though Kodak will continue

to ship it with CD drives. Avantis, a UK company that makes CD file servers, has likewise chosen to contimue fitting CD drives to its products and offer a DVD drive as an £500 option that

attaches externally. Trevor Duplock, marketing manager, says DVD will undophtedly be successful in the mass storage applicahold the data of 7 CD-Roms but Avantis is reluctant to switch to DVD drives, fearing incompatibility problems between DVD disks and drives from different manufacturers.

The arrival of rewritable CDs (CD-RW) further complicates the choice facing storage makers and PC users. The DVD standard includes a rewritable format, called

Ram is not yet perfected and to complicate things further. Sony and Philips are promoting a rival rewritable DVD format that is incompatible with DVD-Ram.

CD-RW, by contrast, is a stable technology that is commercially available and prices of CD-RW drives have fallen dramatically. " 'Read only' has always been considered a major drawback for CD technology," says Wolfgang Schlichting, research manager for removable storage at market

"Now that these limitations have been addressed, users must decide whether to move to DVD and its higher capacity, or stick with CD and its low-cost ability to record."

Infotech predicts more than 6.5m DVD drives will be sold this year, but Mr Pine admits there is a high degree of uncertainty in such predictions and a lot hinges on the success of Windows 98. "The onus is ultimately on Microsoft to deliver Windows 98 in timely fashion." he concludes

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**INTERNET BROADCASTS** 

### Big interest from film companies

From facing page:

launched RealVideo just over a year ago, it asked film director Spike Lee to make three films optimised for the Internet. The films. available on its Web site. have been watched several thousand times.

Today, there are restrictions on the way films can be viewed online, says Mr Ayres. As well as bandwidth restrictions, video can only be viewed in a quarter of the screen unless Microsoft's Direct X software is used.

But the restrictions will be overcome, he believes. "TV and film companies are taking the Internet very seriously." he says. "They see it as angmenting what they do. Right now, a number of film companies are very bullish about advertising on the Net and are using it to show clips and as part of the marketing mix to promote what they

Nethold in the Netherlands, which supplies

footage to leading satellite and cable operators in Europe has set up an extranet (a closed user group on the internet). This enables authorised operators to download video clips from their site, which are used to produce electronic programme guides. Thus, TV operators can market their programmes quickly on their own services or via the

Nick Ayre of computer services company, Cap Gemini, says: "Nethold cuts out a huge amount of effort and cost in not having to distribute video tanes around Europe. It can also monitor who is using what material."

Paul Ayres believes the Internet could open up new markets for broadcasters. "ITN does archive some of its broadcasts and make them available free on the Internet," he says. "But broadcasters are starting to realise that 'old news' is a valuable resource you can charge for."

BRITISH COMPUTER SOCIETY AWARD

### The top team will be announced next week

The winner of the 1998 in particular for impact on Information Systems Man- business performance, the agement Award, organised relationship with end-users, by the professional body, and the management of the British Computer Society, in association with the or both. The award typi-Financial Times, will be cally goes to a team, rather announced at a dinner in than an individual.

London on May 14. The speaker will be the

lebone Station. The awards recognise group. and innovation in informa- through Karen O'Sullivan

Past winners have included Ford, Tesco, P&O deputy chairman of Marks Ferries, Eagle Star Life, and Spencer, Keith Oates. London Ambulance Service Individual tickets are £65 and Cheshire County Counand corporate tables are cil. The sponsors are Blue available at £650. The event Circle Industries, Deloitte is at the Landmark Hotel, & Touche, KPMG Impact, opposite London's Mary- Unisys, and the Woolwich bank and financial services

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# Fast-changing IT skills prove difficult to develop

Employees with computer science degrees do not necessarily make the best IT staff, reports Philip Manchester

the year 2000 and the Millennium bomb computer date problem, plus the prospect of long-running problems in information technology; how they have the right balance of IT skills and how can they

identify the skills they need? the UK's prime minister Tony Blair to fix the year 2000 computer date problem has also focused attention on the increasing shortage of IT

Part of the difficulty lies in the fast-moving nature of the IT industry. Skills that are relevant today could be obsolete in a few months' time because the technology has moved on. As a result, academic institutions - the most obvious primary source of skills development - find it difficult to keep their syllabuses in line with advances in technology and IT-based qualifications have always been difficult to Microsoft UK.

### Graduates

Most IT companies, for example, do not place great lates who are beginning to value on computer science see that you need more than degrees as a measure of IT skills potential when recruiting at graduate level.

"I don't think there is much evidence that people. UK universities, including with a computer science Napier University, and the degree will make good IT universities of Wolverhamppeople. Indeed, we have ton and Brighton - to found that some of our best develop course modules people have degrees in unrelated subjects." notes Vance Kearney. UK human ifications." resources director at data-

base software giant Oracle. There is no doubt that the disciplines of a degree do degree. The trick is to take people who have the right

advantage@systemsunion.com

t look tike double trou-ble: the combination of McKenna, human resources the looming deadline for director at software consultant Logica.

Nevertheless, the formal education systems is still European Monetary Union seen as the best place to (Emu) and the birth of the develop basic IT skills. A euro currency, masks two recent NOP survey in the UK sponsored by Microsoft for example, showed that can businesses ensure that most people (78 per cent) see the education system as having the most important role to play in developing IT The recent belated call by skills. But the same survey also showed that almost balf (45 per cent) of IT contractors acquired new skills 'on

> formal training courses. The survey has prompted Microsoft to promote industry-specific course modules within the full-time education system.

> the job rather than through

"The IT industry has always had a problem when it comes to base qualifications - unlike, say, law or accountancy where there is a tradition of qualifications and continued professional development." explains Debbie Walsh. IT skills development manager at

We have found that universities are keen to offer course modules that cultivate specific skills. They want to attract undergradua degree to get into the IT industry," she adds.

"Microsoft has pioneered arrangements with several based on its Microsoft Certified Professional (MCP) qual-"Our emphasis has been

mainly on the newer universities - the former polytechnics. But we are beginning help - but it does not have to see interest from the older to be a computer science established institutions." says Ms Walsh.

approach to thinking about are, of course, geared to the encouragement and IT and teaching them how to Microsoft's own product opportunity to improve their that use technologies such



### IT in training

Here and on the facing page, FT writers examine ways in which the IT industry and other sectors are attempting to ease the IT skills' crisis with computer-based training

range such as the Windows NT operating system. But Ms Walsh is keen to point out that these product-oriented qualifications are offered as additional modules rather than being incorporated in the formal degree qualification.

"At Napier, the MCP course is offered as an extra module. Other universities offer it as an extra-mural



example, offers students a post graduate one-year conversion course to help students understand the commercial aspects of IT. Our remit has expanded to cover general promotion of technology awareness."

Others are more sceptical about Microsoft's intentions. "I have some reservations about product-oriented courses within the education course. And Plymouth, for system. If it is a genuine

desire to improve the skill pool, that's fine. But it could be viewed as another way of vertically integrating their monopoly," notes Mr Kearney of Oracle.

"I don't really like the idea of developing course modules based on commercial products within the context of a general course on IT. says Mr McKenna of Logica. Ms Walsh of Microsoft accepts this argument - but

There is a place for both and we are talking to the UK's department of education and employment about how we can find the right balance and get a good broad base of all kinds of skills," she says.

places it in the wider context

of the perennial argument

about the value of academic

qualifications compared to

vocational qualifications.

IT itself may of course pro-

vide part of the answer. Innovative ways of delivering educational material both for academic and vocational qualifications - are emerging from the training industry. The Internet and multimedia CD-Rom. for example, provide new ways for individuals to develop their skills and increase

their value to their employ-

Ms Walsh of Microsoft sug-

nesses keep up their stall training obligations without incurring extra costs: "One of the problems is that train. ing budgets are often the first to be cut.

"Along with many IT companies, we are experiment ing with outsourcing training and staff development functions to keep costs down and you can see evidence that this is working. But you need the right support structures and technologies to make this work."

One thing is clear, even with the emergence of product-based qualifications such as those promoted by Microsoft, IT skills are always going to be difficult to develop - both within the formal education system and in the front line of commercial IT. Technology developments in computer-based training (CBT) will help, but they can never provide ;

The NOP/Microsoft survey suggests that the real key lies in providing a good grounding in IT at secondary school or high school level investment that seems unlikely against a background of tightening education budgets.

**EMPLOYEE EMPOWERMENT** • By Philip Manchester

# Advent of 'the learning company

With the help of technology, the development of skills in the business world is increasingly tied to commercial goals

company'. Increasingly, this means that companies are handing responsibility for career and skills development to individual technologies - computerbased training (CBT), the Internet and CD-Rom - are central to this change and IT companies are, unsurprisingly, in the forefront of

what amounts to a revolution in learning. edly a key factor - but then, so is the cultural environ-The MCP qualifications ment which gives employees

appointed director of learn-

"We know we have to take a more integrated approach to training, skills developemployees. New learning ment and professional development. It is a challenge to everyone in IT because of the huge demands of the Along with many IT com-

that its future depends upon a continuously evolving "Technology is undoubtworkforce that can cope with the increasing demand for skills at all levels. duced training programmes

pany is a 'learning IBM Europe's newly- to provide access to training material and monitor the We had training pro-

grammes before, of course. But the Internet has made it much easier to administrate," says Mr Straub, "Our 'Compass for Learning' programme, for example, gives employees access to information that relates directly to the job they are doing. They panies, IBM has recognised can look at industry-specific education programmes and link through to other training materials.

Database software giant The company has intro- Oracle is taking a similar approach: "We are in the process of building what we scheme where employees need some technical train-

current capabilities and see where they need to develop their skills," says Vance Kearney, human resources director at Oracle UK.

### Further options for employees

Staff at the software company can then go for one or more options - such as ordering a training video or CD-Rom, booking into an online course or even sessions of instructor-led training, according to their needs," he adds. Oracle operates a

managers for 'passive' approval. The manager only need act if the course is not Oracle sees the online

### approach as particularly suited to the way the market is developing - especially as the demand for skills moves closer to business know-

technical knowledge. ware solutions. So we want people who are, for example, skilled in accountancy but

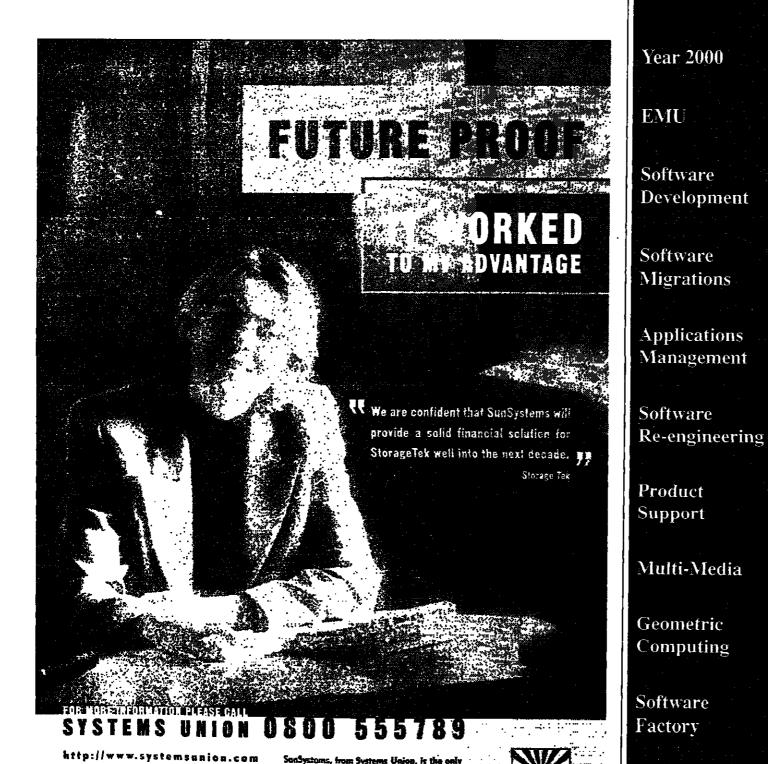
Today's successful com-skills," says Richard Straub, as the World Wide Web both call a 'virtual campus'. Staff can book their own training ing. We want their undercan go in and assess their on the network. Requests standing of the business and are channelled to senior the way financial systems work - then we can give the opportunity to get the technical training they need," says Mr Kearnev.

> ing is, however, seen as an addition to traditional approaches. Oracle sees new methods such as internetledge, rather than purely based learning as working best when combined with "We see the action in traditional classroom learning. "You have to combine future lying very much in the area of packaged soft- the new technology with existing training to get the

> > Turn to facing page

best out of all of them. So we

The shift to online train-



# Year 2000 compliance or IT skills shortage problems? IIS has the solutions. IIS is a UK registered company which has built an impressive client list over the

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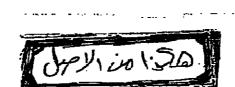
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FINANCIAL TIMES WEDNESDAY MAY 6 1998

TRAINING VIA THE INTERNET . By dobn Kavanagh

# Early days yet for online courses

Critics claim that suppliers have seized upon a new technology too quickly and enthusiastically

develop:

moan

ang diance or

tage problem

Antion.

Then two leading companies revise their ambitions for training over the Internet it is clear that things are not going as expected.

Oracle launched its Internet service 18 months ago with 75 courses from four suppliers and predictions that the number would get into four figures in 1997. The total actually reached 400.

Meanwhile, Microsoft has acted to put new life into its Microsoft Online Institute with a scheme to encourage training centres and course developers to offer their services and products online. Oracle's experience suggests that user companies are not yet sure about this new way of delivering training, which is raising questions about the very purpose of traditional courses: Oracle says companies are still tending to take small subscriptions to try it out.

Training via the Internet ranges from accessing computer-based self-study courses at a supplier's Web site, to complete electronic classrooms: these are typically a mixture of selfstudy and live class discussion led by a teacher, either through Internet chat facilities or indirectly through electronic bulletin boards which participants can access at leisure and add their own comments.

developing these ideas further, bringing in voice communication to make discussion simpler. These online classes typically use the Web to present charts and other visual material. plus telephone conference

The immediate benefit that people do not have to disrupt their work to go away on a course, paying three-figure sums per day, plus accommodation and travel: online courses are far cheaper. As with any courses including a large self-study element, people can study when it suits them, and wherever they are in the world, fitting training around their work commitments.

In addition, the versatility of computers arguably makes online training more attractive than traditional self-study materials.

Mike Harbon, training and development manage at the telecoms group AT&T, endorses this last point when the company went live with a service from training supplier NETg last autumn. 5,000 staff looked at what was available in their own time

over the first weekend. "If you give people the opportunity to learn - the right environment, the right programmes, the right times they will gladly undertake training," he says.

He cites the recent case of an AT&T engineer waiting for a flight who retrieved a course module via the Internet and did an hour's training in an airport departure lounge.

This example highlights another benefit claimed for courses provided through the Internet, an advantage which starts to challenge traditional thinking about training.

Users and suppliers are looking at this new method as a way of getting "just-in-time" training learning the features of a software product individually just before they are used, rather than all at once in a classroom and then forgotien.

### 'Bite-sized chunks of learning'

This point is underlined by Paul Pestell, a northern Europe training manager at Ford Motor Company, the first user of an online service developed by BT and Futuremedia.

He refers to the benefit of "bite-sized chunks of manageable learning", and the fact that staff can "dip in and out of different course sections, from advice to reference material and back to training".

With a system like this, "you can do only the parts you need, and whenever you want" he savs.

But despite the recent introduction of training such companies as AT&T and Ford, overall acceptance has been patchy so far. Some companies believe this could be because suppliers have grabbed a new technology too quickly and too enthusiastically.

"At present, few of those offering training on the Net are getting it right," says Gillian Brand, a manager at Learning Tree International. which provides both classroom and computer-based courses.

But as soon as the technologies mature and more people come up with

training over the Net it will certainly take off." Phil Lawman, UK general manager of Hewlett-Packard Education Services, agrees. This month, the company's training business is making a late entry into the Internet, and says that by delaying its launch it has put together the best combination of classroom Internet and self-study

exciting ways to deliver

"Many suppliers have jumped into new technolog and are forcing clients into it too, for example by promoting the cost savings, Mr Lawman says. "We mainly run technical courses, and for this you need hands-on training, which demands classroom

"We're proposing that people do some self-study. typically through the Web or computer-based training before a classroom course. They thus do part of the course at their convenience and we can reduce a five-day course, say, to three days, while still providing the ands-on element.

The company will also encourage follow-mo learning through the Internet, combining slides on the Web and telephone conference calls, to enable people to raise questions ased on their experience ack at the office. While suppliers review

their offerings and consider the best ways of using the Internet, a technical issue still has to be resolved which could increase acceptance, according to Oracle Education's global media products manager, Andy Ellwood.

Oracle is leading a push for worldwide technical standards to enable users and online services to mix and match courses from different suppliers.

Its campaigning earnestness is reflected in the fact that when it lannched its online service its aim was to establish its Architecture as the standard. But it is now teaming up with Macromedia, supplier of software products for designing multimedia courses and other systems, to adopt and promote a standard developed by the **IIS Aviation Industry** Computer-Based Training Committee. Other suppliers

standard. "We simply want a standard to get established, and we don't care whose it is," Mr Ellwood says. "Then the industry can grow."

are also looking at this

esperate times call for desperate mea-sures, and worsening

IT skills shortages are leading the IT services giant, EDS, to recruit teenagers, IBM to fly students from South Africa to Europe, and other companies to bring homeless people off the

The desperation reflected in new research by IBM Global Services which shows that the UK alone somehow has to find another 250,000 IT specialists in the next five years - increasing the current number by a third. Meanwhile, the US Bureau of Labour Statistics has forecast a need for 750,000 more systems analysts and programmers within 10 years.

In the UK, EDS is looking at almost 30 per cent expansion of 14.000 staff this year by looking beyond its normal graduate recruitment, which alone will account for 700 trainees this year.

In particular, it has introduced an apprenticeship for school leavers. The first 65 people, aged 16 to 20, have joined the company and it expects to take on another 200-250 in the autumn if the cheme is successful.

The teenagers are joining under the UK government's Modern Apprentice scheme. which pays towards the costs. Individuals and employers commit to each other for three years, during which the young people are full-time staff who are helped to work towards a level three National Vocational Qualification, based on training and experience, (there are five qualification

skills base

are using CD-Rom, self-paced

learning courses and the

Web alongside the classroom

employees. "We want to

make sure our people get the

most appropriate training

because the better our skills

base, the more value we can

deliver to our customers,'

says Jim McKenna, human

resources director at Logica.

"At the same time, there is

a personal drive from indi-

viduals to gain the new skills and work on the best

projects," he adds. "We

organise our-training-pro-

grammes so that we have

classic training alongside

CBT to give us the greatest

Advances in CBT and other technologies are making it easier to give power to employees for their own skills development. "Most of all, it gives them the ability to monitor their own devel opment and see how they are progressing," he adds. However, this employee empowerment goes beyond individual development - it also involves co-operation between individuals. "We encourage our staff to set up

ad hoc briefings on subjects

of interest. These focus groups bring people together and allow them to discuss new technology and business developments for the benefit of everyone in the company," he says.

Mr Straub of IBM also

employees and sees this as one of the keys to maintaining the development of 'cor-

"I see my role very much as creating a framework for

continuous learning within the company. We are, for

a culture of sharing and

amployees can act as 'men-

fully supported by Web-

"In addition, we have tools

All businesses, he says

competitive environment. The days of ad hoc train ing and education are gone.

tors' for the less-expe

porate learning

flexibility."

From facing page

Building up the

approach," says Mr Kearney. the technology because you

ica also sees a combination away on a three-week class-

of training methods as the room course."

Software consultant Log- cannot afford to have people

# Training initiatives to ease the IT skills' crisis

To help retain the services of IT staff, companies need to provide training and re-training

RECRUITMENT . By John Kavanagh

facilities spectrum of work and we've decided we don't need graduates for all of it," says EDS chief executive Alan Stevens. "We've never had such young recruits before but they are enriching the mix of skills and personalities in the company.

The apprentices are training for network and systems support and for programming. Mr Stevens says they will be earning their keep within two months. Each apprentice has a relatively young mentor to help informally, and a more senior

In addition, EDS is taking on what Mr Stevens calls "retreads": typically, graduates in their 20s who believe they are in the wrong jobs and want to try information technology.

Also for the first time, the company is looking at students from courses which demand a year in industry, and at offering them extra work during holidays.

IBM. too. works closely with some universities on similar initiatives. In addition, the company is joining

"Increasingly, skills devel-



scheme devised by South Africa's biggest IT services company, Q Data, under which graduate trainees from that country, already experienced in business work, swap jobs for up to two years with their counter-

parts in Europe. Q Data Consulting says its proposal not only trains a European company's own graduate intake and gives them experience with clients in South Africa but also fills its skills gaps by providing cheaper skilled contract staff in the interim.

Another graduate training scheme has been set up in the UK by Icom Solutions. which takes on graduates and puts them to work for two years on client projects, again at rates which reflect their experience, and then offers them to the client as trained and experienced employees, as long as the individuals are willing. Icom points out that by that time they know the client company, its systems and its

opment must be tied to business goals for companies to The growing trend keep their competitive edge. towards IT staff leaving per-We have to make best use of manent jobs to go freelance some predictions see the number of contractors in the UK doubling to 100,000 in the

bringing out new initiatives. Contract staffing agencies are trying to encourage user companies to sign up to schemes under which an agency trains contractors and offers them at cut rates to an employer willing to give them experience in their new skill.

Such schemes have been boosted recently by support from Microsoft, which has put its name to an initiative that links contract agencies with training firms and provides subsidised training materials. The partners can then arrange to offer cutprice or even free training to contractors.

Elsewhere, homeless people in London are being trained in IT through a charity and are starting to find jobs - they are typically former professional or self-employed people in any case.

A UK IT consultancy, group, CRT, has been overwhelmed with applicants after announcing that it was ready to spend up to £70m over the next five years in training and employing 2,000 people to fill skills shortages; it, too, especially wanted people "historically excluded from IT", aiming at filling half the jobs with women rehiring."

40 years of age.

A common thread in all this is something that many employers still seem to regard as the unspeakable

T-word: *trainina*. "There is increased investment in training, but it still averages at only around £1,000 a head," says Tony Reeves, chairman of the IT services group, Delphi, which found in its recent survey that IT skills shortages in the UK were costing companies £260,000 a year on average. "It's surprising that although people recognise the costs of the skills shortage, they are only spending a small percentage of these costs on training."

Mr Reeves says the extra costs arise from employers largely concentrating on trying to recruit or buy in experience from a iobs market already short of specialists, rather than training people.

Yet IBM Global Services says such approaches are a false economy. It says training and retraining of both permanent and contract staff is the secret to retaining their services. Its proof is the fact that its overall staff turnover has been no more than two per cent a year during five years of 20 per cent annual business growth.

"The industry is moving so quickly that we are always retraining our staff," says northern Europe director Brian Sellwood.

"We also have more than 2,000 contract staff, and training and retraining these people, too, is unavoidable. There's little evidence that they leave us once they've had the training. They stay training and recruitment to get experience. There's a fair amount of lovalty among people who see this - as added value to their own growth."

He adds: "We want to avoid the periodic recruitment blitz. It's much better to focus on career development, retraining and redeployment than on firing and



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How it ought to be



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# Key weapon in the battle to beat traffic congestion

Europe has taken an early lead in transport telematics to help improve transport by road, air, rail and water, reports Geoffrey Nairn

ransport is an emotive put at Ecu150bn (\$163.5bn or areas simply because there forms of transport that lack vary widely around the world, but there is general agreement that information technology can help solve many of today's traffic in the days of the horse problems. Transport telematics has thus become one of drawn carriage.
the fastest growing applicathe fastest growing applications of IT.

California may seem to have gestion and pollution caused little in common with the streets of central Paris but denominator: traffic congestion. According to the US no longer an option in many research company. Frost & Sullivan, congestion in the US has reached an all-time

Nine out of every ten Americans travel to work by car contributing to the morning nightmare known as gridlock. As 76 per cent of the US driving public sits alone in their cars, only 12 per cent of the working population is using the carpool lane and just 5 per cent is taking public transport.

In Europe, the growth in demand for transport has been met largely by increased use of private cars which now account for 75 per cent of kilometres travelled. Ownership of cars in the EU almost doubled between 1975 and 1995 from 232 to 435 cars per 1,000

The economic cost of traffic delays and accidents is

car ownership, once a measure of healthy economic development, has

tics to improve public trans-

The European Union

gestion and pollution.

time information about

arrive.

A global ,

positioning

bus arrival

times

systems pinpoints

People working on the edge

of Ipswich, Suffolk, on

Britain's cost coast, no lon-

ger have to spend time hang-

ing around at bus stops. If

they work at British Tele-

com's Martlesham Laborato-

ries they can dial a phone

number to obtain the latest

bus-arrival information. All

they have to do is select the

bus stop - for example, the

interactive voice prompts.

local Tesco supermarket or

system navigational satel-

lites that orbit the earth.

People living or working in

the area can also find out

tempt drivers off the con-

times what is spent on public transport, Estimates indicate that in some European cities average traffic speeds at peak times are lower than

ately needed to reduce the The multi-lane freeways of high levels of accidents, conby today's ever-increasing traffic volumes.

Once, the answer was to build more roads but this is



nsible for IT: transport matics has a crucial role

subject and policies £98.1bn) annually - five is no space for additional construction.

"The mobility problem cannot be solve simply by building more roads. We in the Netherlands do not have any room," says Annemarie Jorritsma, the country's transport minister.

Even if space is available. new roads are increasingly opposed because of their heavy financial and environmental costs and the ing infrastructure results in more journeys overall as road users make use of the hetter facilities.

Transport telematics is the application of computers and telecommunications to solve transport problems. The solutions range from futuristic in-vehicle guidance systems that aim to reduce accidents and improve traffic flows, to novel applications of more established technologies.

An example of the latter is integrated smartcard ticketing that permits passengers to change between different types of public transport and allows the various operators to collect their share of the ticket revenue.

Inevitably, road transport attracts the lion's share of search funding under the are keen to apply IT to other answer has to be transport data network based on the

the voice of the powerful car

So, telematics applications are being developed for all transport modes - road, air, rail and water - and their interconnections. This multimodal approach is seen as vital to the development of integrated transport services and it promotes public-private partnerships.

Europe took an early lead in transport telematics, and short-term fix they provide. after a decade or more of Studies indicate that improvesearch, the technology is maturing to the point where the EU considers full-scale deployment of telematics is no longer a dream.

> Transport accounts for the largest share of the Ecu922m (\$1bn) that the EU is spending on telematics within its Fourth Framework Programme of research and development.

> The Ecu222m transport telematics budget is divided into 70 projects, covering applications as diverse as integrated vessel traffic services to improve maritime safety, interoperable mobile radio systems for Europe's railways and anti-collision systems for cars.

A focus for much of the research is finding ways to improve the chronic traffic problems on Europe's roads. "How do you better organise pricing and, in particular. transport telematics the traffic in European umbrella, but policy-makers towns and cities? The there must be an extensive



### **Transport** telematics

Here and on the following pages, FT writers look at. transport telematics - new ways of solving transport problems, using computers and telecommunications

telematics," says Martin Bangemann, the European Commissioner responsible

One simple, although highly unpopular solution to traffic jams is to restrict entry to congested cities at busy times. The Netherlands hopes to introduce a road pricing system on its busiest roads in 2001 to cut traffic by 11 to 15 per cent at peak

But trials have shown that far from encouraging car drivers to switch to public transport, they simply reorganise their day so as to drive in and out of cities at off-peak times. "It's difficult cars," admits Ms Jorritsma. She says telematics is essential to implement road-

Message Channel over Radio Data System (RDS/TMC). Road-pricing cannot be done without RDS/TMC and we can only employ telematics effectively if such systems are adopted on a large scale."

Data in various languages

The Netherlands will start rolling out its RDS/TMC network this year. RDS/TMC is now seen as an important traffic management tool in many European countries. to get them out of their to receive traffic information in the language they choose wherever they drive in Europe and gives them more immediate access to traffic information.

One trial of RDS/TMC

more integrated approach to transport telematics, so as to better support a range of city-wide policies for congestion management, traffic and

over-reliance on private cars. Integrated transport management can deliver significant benefits, according to Vito Mauro, who leads a European research project. Quartet Plus, that has demonstrated this approach in

standard known as Traffic showed 34 per cent of drivers In the project, reductions in average travel times as high as 20 per cent have been achieved, and the simchanged their route following messages about congestion, and 33 per cent reduced ple act of prioritising public speed when approaching an transport led to improvements in public transport RDS/TMC is just one of the journey times of 15 per cent with no disadvantage to pritools employed to achieve the ultimate goal for traffic planners: an integrated vate transport.

transport management. Vari-"Transport telematics can ous European cities have be used as a substitute for been working towards a investment in new infrastructure," he says.

Quartet Plus is just one of a growing number of projects that demonstrate the wide-ranging benefits in transport and traffic that can be achieved by telematics. But their widespread application ultimately depends on achieving the political consensus needed to reform transport policy.

to using one in a car."

today immature.

He believes the ideal solu-tion to prevent drivers tak-

ing their eyes off the road

would be to incorporate

some form of voice recogni-

tion, but such technology is

**EUROPE'S 'PROMISE' PROJECT** • By Geoffrey Naim

# How IT helps plan better transport services

New information systems will enable the public to make in many cities become a curse. Authorities hope to easier connections and alternative transport choices stem the tide and encourage more people to leave their and, hopefully, leave the car at home cars at home using telema-

dardised system architectures, data models and interbelieves a significant shift

Promise is the acronym of from private cars to public transport can help achieve one transport telematics its transport policy objecproject funded by the EU tives of reducing urban conthat aims to provide travellers with easy access to real-Telematics applications time information throughout their day and so allow them can help in various ways. They can provide better serto make better transport vices for public transport choices and, hopefully, leave users, such as electronic fare their car at home. collection, services that

The project depends on the more closely match chang-GSM cellular network, ing demand, interactive tripwhich is widespread

"The modern GSM phone when the next bus will is not only for voice communication, but it is also a data For the operators, technol-terminal providing access to ogy can help them improve a vast source of useful inforservice quality through bus mation," says Tommi Ojala, priority systems, advanced Promise project co-ordinator vehicle scheduling and con- at Nokia, the Finnish tele-

CASE STUDY: Enhanced bus services . By Joia Shillingford

The real-time information

system has been in place since January 1995, deliver-

ing information to bus stops.

But it has only been avail-

able on the Internet since

January this year, with the

phone-based system being

added for BT users and their

visitors a few months ago.

How the system

Tracking devices on each

bus work out its position to

within 100 metres. This data

is transmitted by mobile

Advanced Communications

from ACIS is then sent to a

server computer at BT Labs

Prediction software on the

timetable to produce the cur-

The predicted arrival

Internet through the use of

for the internet trial.

works

BT's complex - from a list of radio to computers at

The information is gath- and Information Systems

ered from tracking devices (ACIS) which produces the

on each bus that interact 35 bus-stop and two super-

with the global positioning market displays. Information

when the next bus is going server combines the data

to arrive by looking on the with a route description and

Information on when rent position of the buses on

buses are due to arrive is the route. After this it esti-

available at many Superoute mates their arrival time at

66 bus stops, too. The idea all the other stops along the

behind the system was to way. This information is pro-

make travelling by bus as vided on the Internet and

gested Woodbridge Road cor- times are delivered to the

This seems to be succeed- Microsoft Active Server

ing. Within this corridor, the pages. These pull the latest

number of passengers has information off a database,

increased by 8,000 since Jan- so the Internet surfer always

uary 1995 - an estimated receives current informa-

reduction of between 3.300 tion. Java applets (small

attractive as possible - to updated every 30 seconds.

trol systems. Telematics - coms supplier Nokia. using a combination of com-Nokia is one of the part-Duter-based and telecommuners in the project which nications technologies - can also includes IBM and Philalso be applied at a higher ips, car manufacturers

Telecom Finland, France Telecom and PTT Telecom Netherlands.

Promise will be demonstrated at six trial sites in Finland, Sweden, UK, the Netherlands, France, and Germany during 1998 and over 500 people will test the

Early feedback on the 'Promise' project at test sites in six countries is promising

system. Travellers can access the service using vari-

ous terminals. personal computers for pre- ahead, allowing him or her sages to be broadcast to an trip planning at home, or an to decide to leave the car at area of one or more GSM Volvo, Renault and BMW, in-car terminal while on the the nearest station and con-cells, and this is used for

and 5,000 car-movements a applications) are used to ways - either as a graphical

make the website more map or as a text file with the

interesting - for example, estimated arrival times for

they are used to move the each stop. The web pages

route information in two stops they use.

navigation systems

that takes advantage of GPS.

centre, which can send help.

alcohol - on board.

travel.labs.bt.com

Increasing use of satellite

Satellite navigation systems are being used more

widely, partly because of the falling cost of the

boat-users their location, for example, can now be bought for as little as £84.95, writes Joia Shillinglord.

navigation systems, such as those provided by the

technology combines GSM mobile communications,

Setellite navigation systems can also be used to

produced a mobile social alarm (codenamed 'Mosa')

The alarm is a mobile phone, designed for people

such as social workers going into high-risk situations.

monitors the phone's position and stores the location

BT also makes use of Immarsat satellites to track

navigation systems are often used in conjunction with

attached to a truck can be very useful if the vehicle is

stolen with expensive cargo - such as algarettes or

The Superoute 66 Live web site is at http://

data. Then, if the user pushes the panic button, the

location information is automatically sent to a call

large vessels or trucks around the world. Satellite

mobile radio for fleet management. A GPS receiver.

it has a GPS receiver attached, which constantly

satellite positioning systems and digital mapping.

improve safety. BT Laboratories in Martiesham has

Automobile Association. The AA's telematics

ology for receiving a positioning fatitude and

longitude) signal. Global positioning systems for telling

GPS systems are also being used as part of in-car

'bus icon' along the route can also be personalised so

Internet users can read the arrival times for the bus

Get there quick on route 66

grate transport using stan- and telecoms operators BT, road and a portable terminal - such as the Nokia Communicator or Philips Velo handheld PC - when waiting for the train or standing at the

> According to Peter Geen. the Promise project manager at Volvo, research shows that much congestion results requiring large local memfrom people not choosing the ory. best means, time or route to make their journeys. The approach contrasts sharply Promise project thus aims to with in-car guidance increase travel efficiency by systems, for example, that giving the people the chance

updated in real time. provide help when unex- and fax. Short Message Serpected travel problems vice and Cell Broadcast. emerge, such as when an without warning creates a serious traffic jam.

In such a case, a driver

that the user only sees

time the journey by train. efficient transmission of service supports standard compare standing at a bus Timetables can be consulted messages to a selected group Internet protocols and the stop with a Communicator online from the car and while the user is in the train, he or she can plan the next stage of the journey using a handheld PC with GSM wireless link.

An overriding concern in developing Promise was to design a service that can be accessed from a remote server using affordable standard GSM terminals without

This server-based require expensive dedicated terminals and CD-Rom arives to store the digita based on information that is maps. The service uses currently available GSM data The project also seeks to services, such as GSM data

SMS allows the transmisaccident blocks a road and sion of short enquiry and information messages with a length of a 160 characters. The GSM Cell Broadcast They can use their own will be alerted to congestion function enables short mes-

BT developed the trial sys-

tem in collaboration with

Suffolk County Council. Den-

nis Sheat, BT manager at

the Labs heading the project,

says: "The website trial runs

to the end of the year. But

early feedback shows that

usage peaks between 4pm

and 6pm when people are

thinking about travelling

home. This suggests that

people are finding it useful.

About 25,000 people have

accessed the site since Janu-

As well as other passen-gers, staff at Martlesham

benefit from it because the

Eastern Counties Buses'

route connects BT Laborato-

ries at Martlesham Heath

(and Kesgrave) with Inswich

town centre and the railway

station. In fact, many of

Superoute 66's regular pas-sengers are visitors to the

Tony Lewis, chairman of

Suffolk County Council's

Transport Committee.

believes that "one of the big-

gest issues facing us today is

how we are going to per-

suade people to cut down on

their use of private cars and

the associated problems of

pollution and congestion. We

see this development as a

significant step forward in

making public transport

more appealing to a wider

Mr Sheat says that the

next step for routes such as

66 is to provide arrival times

- not just to the internet,

but also to portable devices

such as mobile phones and

number of people."

BT complex.

messages to a selected group Internet protocols and the of mobile stations in a cell to distribute traffic-related data for example.

Using the GSM network has the obvious advantage that it is an established and easy-to-use technology but it has its disadvantages, such as relatively low data transfer rate of 9600 bits a second. "GSM is not really capable

of providing information as quickly as we would like." says Mr Geen. "However, there are developments on the horizon to improve the speed."

Promise also employs will need a lot of further another highly successful work, particularly on the

user interface in the hand held terminal is based on a standard web browser. Nokia Communicators are

parking control, and reduce

being used as the portable terminal during the Promise trials while Nokia has developed a prototype in-vehicle terminal with a positioning device. Contrary to existing in-car

systems, the in-vehicle terminals are not based on onboard navigation or realtime traffic information. According to Mr Geen, the

in-car terminals have been As well as using GSM, the most problematic. "They

The Promise project started at the beginning of 1996 and will last until the end of this year. Although it is too early to draw conclusions, Mr Geen believes that

early feedback is promising. "We have noted a change in people's behaviour," he says. "They will use more public transport because

EUROPEAN RAIL SERVICES . By Geoffrey Naim

# Radical approach to network operations

The Netherlands aims for a total reconstruction of its train planning system from timetable publishing to rolling stock movements

ecades of under-investment and declining interest from the travelling public have left much of Europe's rail network, once the pride of the world, in a

poor state. The political climate has also turned against further extensive public investment in the railways and so rail operators are using IT to improve services and better exploit their existing infrastructure.

The Netherlands has a particularly dense rail network with an intensity of rail use that is three times higher than in the rest of Europe – about 16bn 'passenger kilometres' were travelled in 1997. Rotterdam is also Europe's busiest port and 80 per cent of freight is through traffic on its way to Germany and other countries

All this traffic places heavy demands placed on the rail network of operator Nederlandse Spoorwegen (NS). New investment projects have been planned to improve critical parts of the network - such as an Amsterdam-to-Brussels extension for France's TGV bigh-speed network.

But apart from these showcase projects, the infrastructure as a whole leaves a lot to be desired with signalling systems that are decades old and the quest for greater efficiencies is hindered by antiquated labour-intensive processes and piecemeal nvestment in technology.

Because of these problems, in 1994, NS decided to look for a private company to buy and run its

IT subsidiary leaving the public operator free to concentrate on running trains. In June 1995, the contract was awarded to the Dutch subsidiary of EDS, which claims NS was the first European railway to outsource its IT department. "The idea is to

bring in IT to better manage the rail operations and so run more trains on the network," says Henk Tijssen, manager for rail operations with EDS in

Railways have a highly IT systems are

now being developed by EDS in a contract worth \$1bn over 10 years

regulated traffic process in which every movement is carefully planned and published Traditionally. this time consuming process would take six months to accomplish with nothing to help the planners but an old mainframe

NS has started a programme to modernise the planning and management systems with the aim of reducing the planning cycle by 50 per cent in 2001.

"NS wanted a total reconstruction of its train planning system from timetable publishing to rolling stock movements,"

A key to achieving greater efficiencies is to integrate traffic control systems so that a train controller can see the whole of the Netherlands on his or her computer screen. Before, controllers sat in local control centres and

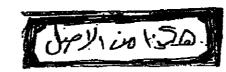
A new main centre has been built in Amsterdam and ultimately, NS wants to reduce the number of control sites from the current 15 to 8 or less. according to Mr Tijssen

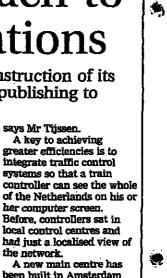
Another benefit of the new system is that change to the published plan can be communicated to the controllers' screens before, such changes had to be distributed on paper or by phone - and routes can be automatically set to reflect the changes.

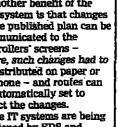
The IT systems are being nature of the project - the

For example, the first developments in the late 1980s were designed around Digital Equipment's Vax computers running the Unix-based systems and.







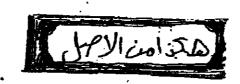


developed by EDS and because of the lengthy first plans were drawn up ten years ago – it has had to adapt to different generations of computer technology.

VMS operating system. EDS has since started to move to most recently, Windows NT. The changeover cannot be completed overnight.

however. "We have a lot of investment in VMS and do not think Windows NT is yet stable enough for a project of this type," says Mr Tijssen.





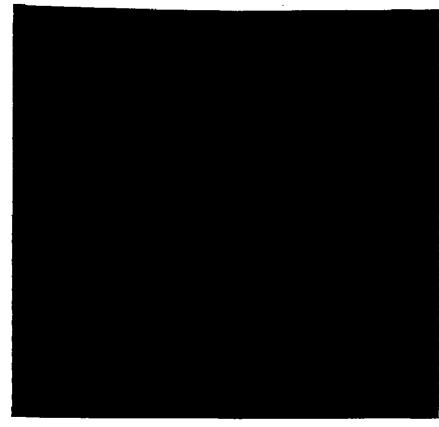
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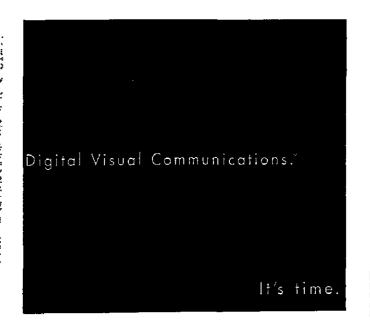




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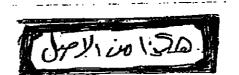
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TRANSPORTATION

# Big savings for haulage companies

'GreenTrip' project optimises route planning and also benefits the environment, reports Michael Dempsey

ollpost-Globe, one of Norway's largest road transportation companies, has recently reduced the distance that many of its drivers cover in Oslo by 25 per cent. The key to this development, with its dramatic cost-savings, lies in computer software that optimises route planning.

For Jorn Kveseth, Tollpost-Globe manager for local pick-up and delivery, the technology itself is irrelevant. "As an end-user, all I know is that it takes information from our administration system, adds all the information about orders and says where and when a driver should pick up and drop off a delivery."

Tollpost-Globe is one partner in a £3.3m European Union-backed programme named 'GreenTrip'. As the contained in the GIS. The name implies, the project's choice of the Ilog software goal - which is reducing the came via the involvement of distance covered by road Norwegian research foundahaulage companies in tion Sintef. Europe - should benefit the environment. But for Tollpost-Globe, GreenTrip has opened up the prospect of significant cuts in its operat-

During a working day in well as finding the fastest a road haulage company. route hetween stops, Toll-

post-Globe wanted the ability to re-route drivers to cope with late orders or sudden changes to the custom-

Each of the vehicles in the GreenTrip initiative is fitted with a small terminal for receiving data on the move. Information is delivered via Mobetex, a radio-based vehicle communication sys-

A program from the Norwegian Mapping Authority, known in IT circles as a Geographical Information System or GIS, contains every road and address in the country. Each driver might make 50 stops in a day, so the mapping information is

The software intervenes at the very start of this process. The program, called Dispatcher, from the French software house, flog, takes the order data and arrives at a list of addresses containing the shortest possible route between stops. The process that Dis-

patcher engages in is called Optimisation, picking information from the electronic list of roads and addresses Mr Kveseth says he had

been looking without success for software that would handle drivers' directions. The search had been futile because Tollpost-Globe lacked intimate industry Oslo, its drivers handle 3,000 knowledge. IT was not, of pick-ups and deliveries. As course, the prime concern of



Frosty landscape in Norway: one of the Tolipost-Globe vehicles en route to Osio. IT systems are

go into transportation."

an average of 200 kilometres.

the 100-strong fleet in Oslo,

but Mr Kveseth now plans to

expand the GreenTrip princi-

"Savings of 25 per cent in

A reduction in the size of

Tolipost-Globe's fleet is now

possible. Mr Kveseth pre-

dicts the company will soon

be seeing savings of £35,000 a

we don't have the network to research these products." he says. Dispatcher works by a pro-

cess llog which calls "Constraint Programming". Each address fed into the system is recognised as having a specific attribute. Thus, Tollpost-Globe only describes the address to Dispatcher once. The system builds up a library of material relying on algorithms developed by Ilog to link the different attributes together.

Clearly, a vehicle with a capacity of 1,000kg is in a very different category to a small van capable of holding 100kg of goods. The larger transporter is automatically allocated to carry the heavier cargo.

Mobile communications within the vehicle mean fresh orders can be swiftly programmed into it and communicated to the driver during quieter periods in the middle of the day.

The company has also the distance travelled mean experimented with about 10 per cent savings in Global Positioning costs," he says. System equipment in one vehicle, using satellite navigation to pinpoint the exact location of the van. But the frequent communications between its fleet and the Dis-

patcher workstation at the home-base mean that this revenues are £80m, of which some £15m consists of paytechnology is redundant. With 3,000 orders flowing

ments to its 450 drivers. through Oslo every day, we Around half of that sum is get a pretty good idea of paid to drivers in urban where the vehicles are," says areas, where this technology Mr Kveseth. makes good sense.

Bruno De Backer, Ilog's For the rural side of the project manager for Discompany's operations Mr patcher, is also working with Kveseth is less enthusiastic Pirelli Cable to optimise the resources of its European about the benefits of linking sophisticated software rundistribution network. This is ning on an office workstatdriven 'by very visible ecoion to the driver via mobile nomics," says De Backer. data links. "Typically, 30 per cent of the price of a final product can "You don't need an optimi-

sation product, if you're in a valley because you probably At Tollpost-Globe, Mr know the best route any-Kveseth says the Dispatcherway," he says. enabled drivers have reduced their daily trips by For Tollpost-Globe, the

marriage of IT and mobile communications will be con-Tollpost-Globe started fined to the urban zone using Dispatcher in January around the Oslo Fijord. 1996. The trial has been confined to 15 vehicles out of The European Union

GreenTrip appears to be answering a difficult question. How does Europe sustain economic growth while paying more attention to the

technology in a field referred to by some players as Transport Telematics, should provide a compelling reason for businesses to sign up for a green agenda that benefits

ROAD PRICING . By Mark Vernon

# Toll concept is gaining ground

RANSPORT TELEMATICS

But finding electronic ways of making charges on motorists is proving difficult

he use of road pricing, as an alternative way to charge road users. is well-established in France, Italy, Greece, Spain and Portugal, to say nothing of its extensive use in the US. The idea of road pricing

via advanced electronic tolling has been boosted by a moral imperative arising from the increased significance of green politics.

A report from the UK's Royal Commission on Environment Pollution, advocates a list of actions which are essential to make private transport less damaging and public transport more attrac-tive. And across Europe, road pricing is gaining ground as a better solution than increasing taxes on fuel, the so-called carbon

Road pricing helps fulfil the political necessity of targeting charges precisely according to usage and distributing the revenues collected to related environmental projects.

Achieving a realisation of this policy would not be possible without technology. It will play a crucial role if practical methods of collecting differentiated charges are to be made cost-effective. And as Neil Kinnock, the The imaginative use of European Commissioner responsible for this area of EU policy, commented in a keynote address to the EC Conference on Fair and Efficient Road Pricing last September, "when recent technological advances make such change feasible, it

really is time to move on." However, although there is a general acceptance that the technology is capable, the pilots that have been running across Europe have highlighted important concerns that are blocking wide-

spread roll-out. base. Mr Kinnock has expressed the need to facilitate a structured informa-

Typically, projects deploy smartcards and remote readers to log motor vehicles as they enter pre-defined cor-dons in order that drivers might be charged.

The infrastructure has so far tended to be dedicated. say in the form of an overhead gantry on the motorway, but there is also some discussion of using the GSM standard to integrate detection with other networks too, though whether these systems would then be built into cars and/or trucks as

standard is open to question. Ren Bastiaans, head of road transport research, directorate general VII of the EC. has considered a number of test cases that illustrate the stumbling blocks.

The Netherlands' Ministry of Transport has a pilot project in the Amsterdam area: it recorded a rate of misses



Neil Kinnock, EU Transport Commissioner: encouraging progress in road pricing by

greater than one vehicle in 100,000, which is not trivial. There was a German field experiment, run two years ago by the Federal Transport from its use on the London Authority, which was Underground, as a kind of deemed by one group of ana- civic membership card, givlysts a success, but by ing its holder freedom to another group a failure, travel at no extra cost by Incidentally, within this because of the types of whichever mode suited his systems gets it wrong, that their journeys has exercised cannot be allowed to pass.

database which is being Trondheim, Norway, uses developed for the Internet. road pricing to encourage port for getting into the city, explains Mr Bastiaans. This so-called electronic congestion charging is a strategy acceptable to the public.

The UK's Department of Transport ran a similar model for London, experimenting with a minimum charge of £1 for crossing points that roughly coincide with the North and South Circular Roads. If a scheme can cope with a London pilot, the busiest city in Europe, it could cope with But although the detection end of the system was, in theory, up to the task, the problems came with allocating these revenues to public transport and other local

purposes.
Overcoming these integration issues keeps the technology costly and complicated to implement. In fact, according to Stephen Glais-ter, Cassel Reader in Economic Geography at the London School of Economics, "simple, low-tech options have been dismissed too lightly". The simple solution, he says, is the dailydated piece of paper dis-played in the windscreen of a vehicle found within the designated area known as supplementary licensing.

He challenges the assump tion that the long term costbenefits of the low-tech alternative would not perform as well. For example, this route offers flexibility and lower risks when compared to electronic systems. Or, he argues, if low-tech solutions raise complications, such as how to treat car-owners who live within the controlled area, consider how complex electro-mechanic systems would become.

He recommends the London Travelcard, upgraded

This raises the second big experts for more than 30 issue of political acceptabil- years. It would seem that

TRAFFIC MANAGEMENT/ELECTRONIC TICKETING . By Geoffrey Naim

# Pioneering projects in Paris

The city benefits from a new public-private partnership in traffic

management Parisian motorists stuck in a jam on the notorious Périphérique ring road this morning need little reminding that 80 per cent of French traffic jams are located in the greater Paris area known as

But what is perhaps not well known is that traffic congestion cost the French economy a staggering FFr6bn a year. Half of traffic jams are due to unforeseeable situations such as accidents and breakdowns so if drivers could be given up-to-date information on current road conditions it would allow them to choose alternative routes.

This is the thinking behind the Visionaute system which has been operating commercially in the fle de France since last October and is claimed to be the first such system in a European

The service is operated by Mediamobile, a company set up by France Telecom with carmaker Renault and other shareholders. An on-board computer collects real-time information provided by the local traffic authorities using a standard known as Traffic Message Channel over Radio Data System (RDS/TMC).

on a small screen on an sensors also feed the VMS

ΑŢ

DE GAULLE

The Internet, telephone difficult to consult once on the road and the data becomes quickly obsolete.

source of traffic information, but such reports are general and do not take the motorist's personal journey into account. In addition, the information is often broadcast too late for the motorist to take an alternative route. In Paris, drivers on the Périphérique and other main

roads have grown accustomed to the large Variable Message Signs (VMS) besides the highway which give them an estimate of drive times to important junctions. However, these signs are

no help if the driver decides to leave the main roads. The Visionaute terminal aims to overcome the disadvantages of the above methods and offer real-time personalised information that is constantly up to date.

"Wherever the motorist is, Visionaute can provide him with traffic information," says Robert Chassang, chief executive officer of Mediamobile.

The system works thanks installed by Parisian roads on traffic flows; these same

BOBIGHY

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PARIS-EST

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already used to receiving and combined with informatraffic information via vari- tion on accidents, roadworks and street demonstrations.

The centre processes this information services and data using algorithms that France's Minitel all provide calculate the predicted jourtraffic reports, but they are ney times for routes between approximately 200 different points in Paris and Ile-de-France. The driver simply Radio reports are another enters his or her start point and destination on the Visionaute terminal and the system proposes three differ-

> ☐ The most direct route using main roads. ☐ The route the drive usually takes - it can memorise

> 14 personal itineraries. ☐ A third option is proposed if the other two routes are congested. The system will alert the driver if an accident or other unexpected development occurs, allowing him or her to change route if necessary.

Easy access

Mediamobile says the system can be quickly consulted on the road - waiting at a red light, for example and the portable version can be carried around, allowing the driver to plan his or her route before leaving the

home or office.
Use of the Visionaute service costs 18 euros a month (equivalent to FFr18) while the portable terminal costs to thousands of sensors 460 euros. The in-car version, currently only available as that continually record data an option for the Renault Megane Scenic, costs 460 euros and offers extra fea-

ST DENIS

onboard terminal built in panels. This data is then tures, such as GPS position- part of an ambitious pan-Euthe car dashboard or on a sent to the control centre ing that allows the actual ropean initiative to promote location of the vehicle to be contactless pass technology climate of growing interest, misses: if a driver is not or her particular trip. displayed on the digital map. and apply in different situatechnology is also aiding the charged, that might be Finding a way of ch portable unit. Motorists are operated by Mediamobile location of the vehicle to be contactless pass technology Mr Chassang says the tions. Other cities involved spread of the knowledge- acceptable, but if the motorists for the cost of Visionaute system could be extended nationwide in 1999 and the service expanded to aim is to create a universal

station and the occupancy levels of car parks, for exam-In time, he sees the system being extended across Europe and discussions are

already under way with potential operators in UK, Germany, Italy and the Netherlands. The standard used to broadcast Visionaute is compatible with the pan-European service that sevlaunch this year on Europe's principal motorways.

transport telematics practice, thanks to its extensive tem which is a showcase demonstration of the benefits of public-private partnership in traffic management in this case public bodies provide the traffic informa-tion while private companies supply the terminals and operate the service.

The interconnection of the control centres is expected to lead to an improvement in co-ordination between road authorities and more extensive use of VMS.
Other transport projects

are similarly advanced. For example, within the next three years, the public transport system in the lle-de-Paris plans to use contactless payment and ticketing

RATP, the Paris masstransit authority, was one of the first transport authorities to install a magnetic language or have the same payment system 30 years ago but the familiar green tickets are showing their age and the system must be

The new electronic ticketing system, based on contactless smartcards, has been state railway and is open to other operators in the fle-deits final test stage before entering general use. More than 6m transactions

have been performed and the results show that reliability is at least 10 times better than the magnetic green ticket, while the time taken to perform a transaction is 100 milliseconds as against a second for the traditional

are Lisbon, Venice and Constance in Germany. The broadcast the location of the card that can be used to pay tion exchange on road pricnearest chemist or service for goods and services as ing by electronic means such ity and the need to hypothe- there are a few more years well as transport ticketing. as the Citizens' Network cate charges. A pilot in to run yet.

long ago when he took a group of elephants to fight eral EU countries plan to High Altitude Network for the Needs of Integrated Border-Crossing Applications and Links and it's a three-Paris is widely considered one of the best examples of year project to improve trans-Alpine traffic flow.

This European Commis-VMS network and, most sion project is designed to management recently, the Visionaute sys- reduce congestion and pollution through better traffic management. It began in 1996 and has three parts: the Paris-Lyon-Turin-Milan-Trieste Corridor, the Alps Crossing and the Sestriere demonstration project for the World Skiing Champion-

The aim of the Corridor urban and regional traffic part of the project is to improve information to drivers on the Paris to Trieste motorway. This is harder than it sounds because there are 12 different motorway operators along the route. And surprise, surprise: they use a variety of differ-

ent technologies - some communicate traffic information via radio, others by putting information on overhead digital displays along the route. But not all the displays (known as Variable Message Signs) use the same number of letters. Drivers can usually obtain

reasonable information about the part of the route part. So the Hannibal team is developing software that will enable one message to under test since 1991 in con- be sent out in a form that junction with SNCF, the can be displayed/broadcast on all operators' equipment. The different operators are France region. It is now in not obliged to display each

others' information, therefore the project team is help- are both toll tunnels and ing to set rules for when another operator's newsflash might take precedence. For example, a safety issue such hour delay, traffic could be of any tailbacks and their oped for Hannibal should be as fog ahead would take precedence over information about a traffic jam. Working out and agreeing

the different priorities is quite a complex task, accord-The Paris project forms ing to Martial Chevreuil,

# CROSSING THE ALPS . By Joia Shillingford Crossing the Alps has A Hannibal for group of elephants to fight the Romans. Today, 'Hannibal' is a name that stands for High Altitude Network for

Trans-Alpine delays are reduced by traffic software

project director of Hannihal and manager of transport engineering at Egis subsid-

iary, ISIS, in France. The Corridor demonstra-tion (trial system) will begin in June and should be ready in time for the soccer World Cup in France. Hannibal is also preparing a 'feed' that can take information from all the operators and broadcast it on a new radio traffic system that will transmit

digital data to cars. The Alps-Crossing part of Hannibal seeks to optimise the allocation of traffic between the two tunnels

The system can be applied to other European road networks

connecting France and Italy, they are on, but not the next the Mont-Blanc and Fréjus

> This is particularly importent in winter when adverse weather conditions can block a tunnel. The Hannibal team is working with the tunnel operators to agree the could lose revenue.

"For example," says Mr Chevreuil, "if there is a twoanother. But if both tunnels are blocked and there is a four-hour delay, vehicles not even near it yet, need to be warned."

safer for lorries to wait in CSST, analysed the data and service-station car parks made recommendations. than on steep alpine roads. Hannibal has developed software to manage such problems and is building up a library of plans for different situations. "These plans exist on paper, but they are not as manageable," says Mr Chevreuil. The software also provides the traffic authori-

difficulties and change their plans quickly. inductive loops) is sent into the software via fixed telecoms lines when cars pass over them. From this data gathered using telematics – the software can estimate the number of lorries, plus congestion levels, then work

ties with a forecasting tool enabling them to anticipate

out what measures to take. The Alps-Crossing demonstration project will begin in June and continue through

The Hannibal project team gained much experience of managing traffic during the 1997 World Skiing Championships which took place in ciently," according to Mr Sestrière in early February Chevreuil. He says: "There Sestriére in early February

Here, traffic was measured as cars passed over metal ways and access roads into days. the region. This information was transmitted to a trafficcontrol centre on the border back because one of the meabetween France and Italy, sures the police had to take near the Fréius tunnel.

Information was also colcriteria for re-routing traffic lected by around 20 police between them, since they and road-maintenance staff using portable computers the maximum delay anyone linked to Global System for visiting Sestrière for the Mobile (GSM) phones. This data, which included details black ice), was also transmit-

ted to the control centre. At the centre, traffic man-This is because it is much project's Italian partner, Romans.

However, the final decisions on what to do were made by a group of people including

Traffic was managed by encouraging drivers to park near Sestrière and travel into the resort on shuttle software was developed to forecast the traffic expected in each car park and organise the shuttle in real-time.

When one car park was Data from metal strips (or full, drivers would be directed to the next one. Data from the traffic centre was also transmitted to a server computer in Sestrière and combined with other data, such as hotel availability and details of ski races.

This information could be viewed on kiosks around the resort or on an Internet Web site. VIPs were even given Nokia GSM phones-cum-personal-organisers for two or three days at a time to check out the Web site.

"The Sestrière demonstration worked very effiwere no four-hour traffic jams as there often are during peak times in the Alps, strips on the main motor- such as French school holi-

> "The first day there was a one or two-kilometre tailhad not been fully understood. But after that there were no further problems. Twenty minutes was about championships experienced.

Data and software develre-routed from one tunnel to length and any adverse relevant to other European weather conditions (such as road networks at a time becoming unpopular though not as unpopular as agement software from the Hannibal was with the



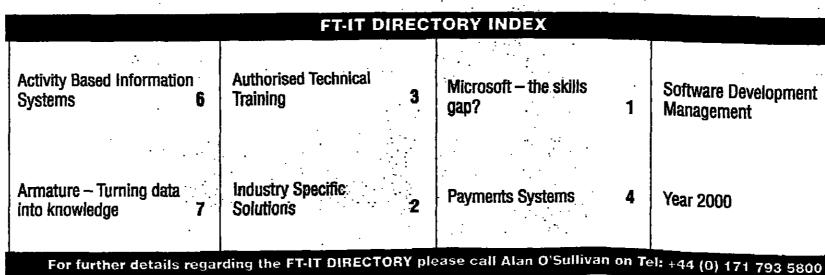




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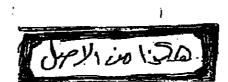
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MINECTORY -

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Time is saved and customer services are enhanced with digital data links

axis are not the type of vehicle you normally associate with high technology, but recent developments in computerised taxi dispatch and management systems are starting to change all thaL

The latest in-vehicle mobile data communication systems used by many taxis incorporate digital data communications, global positioning system (GPS) echnology and a variety of wireless data transportation options.

They mark a big change from old radio-based systems that could not always be relied-upon to maintain a clearly audible link between driver and dispatch office - and inevitably led to misunderstandings between dispatch and driver that left

passengers unimpressed. The Canadian company. Mobile Data Solutions (MDSI). based in Richmond, British Columbia, has enjoyed considerable success globally with its Advantex-Taxi system. It sends iob details and information to taxis or fleetvehicles in a rapid wireless digital format, rather than the traditional voice over radio. The digital system dramatically speeds up job-allocation and 'ride . turnover', says the

By using MDSI's implementation of GPS technology, the Advantex-Taxi can automatically offer jobs to those taxis that are closest to the customer - leaving the dispatcher free to handle customers' calls.

The Canadian company says its in-vehicle terminals also feature an integral receipt printer and magnetic card swipe to give drivers rapid online authorisation for credit and

smartcard payments. The system is also configured with a large display screen capable of displaying both character messa character messages and graphics, which MDSI says will ensure that drivers rapidly receive accurate job

Last year, the company rigned a \$1m deal with ... Amager-Obro Taxis for Advantex-Taxi systems for use in the Danish company's taxi fleet. It is just one of a number of . orders won for the system including an earlier \$6m contract with Copenhage Taxi and a large order from UK based Radio Taxt of

London in 1996 MDSI, however, is not the only company in this highly ompetitive sector. UK-based Cognito has also enjoyed success in this: market, attracting fleet. management and limousine service companies, Airport limousine company, Tristar Cars, for example, is using Cognito Messager system to improve the quality and capacity of its service.

🕇 ristar Cars works with many of the leading airlines – including Virgin Atlantic. Cathay Pacific and Continental Airlines - to offer first class customers limousine service to and from London Heathrow, Gatwick and Manchester airports.

It operates a fleet of 292

cars, including Saab, Range Rover and Honda Legend cars - and relies heavily on quick communications with drivers to collect passengers quickly and efficiently. Tristar's marketing manager, John Saunders, says that traditional radio-based voice communications were just not up to the lob - and the company had to find a better way to communicate with drivers.

We have found speech to be time consuming and error-prone when relaying details of jobs to drivers," he explains. "Typically, a phone call would last two

minutes, and when you multiply that by 30 jobs, you have already just a very valuable hour. Militiply that by 180 vehicles and you're

wasting money." form of Cognitio Messager, band portable all in one mobile data terminal that the company says will provide 20 hours use from a single charge. -

The Messager is operated through a Qwerty keyboard with function keys for sending and receiving free. text messages and forms, which are displayed on a LCD screen along with battery and signal strength

Mr Saunders says it has made "a buge difference" to his company, allowing dispatchers to handle more calls and largely eliminating the frustration experienced by drivers and customers when orders were garbled during voice He adds that one of the

keys to the success of this system is simplicity for the driver. A number of two-digit codes are all that the driver needs to enter to communicate a variety of ssages – drivers type 03 to accept a job, 97 to indicate that they are running late, 53 to indicate that an address is wrong, and so on.

There are also codes to indicate estimated time to drop-off of a passenger. And unlike many technological enhancements, the payback from this system has been fast and quantifiable.

"Using this system, we've almost trebled our capability," he says. Instead of each booking requiring a two-minute phone call with the drive, by using Cognito Messager, the process of distributing a job can take as little as four seconds." Using a mobile data

terminal to do job distribution can provide a much greater level of detail to drivers regarding customers' requirements. thus enhancing services.

PORT PROJECTS . By Geoffrey Naim

# A boost for maritime safety

Advanced ' communications technolgies enhance marine traffic

management

strong seafaring tradi-A tion has given Norway
a particular interest tion has given Norway in improving the safety and efficiency of maritime transport. The crowded waterways around Oslo - known as Oslofford - are thus being used to bloneer new techniques in maritime traffic management using advanced communications technologies known as Vessel Traffic Services (VTS)

The port of Oslo handles 24m tonnes of goods and 8m passengers each year and the flord is home to several other ports as well as a large

"The consequences of an oil spill or collision would be tremendous," says Christian wegian company Kongsberg Norcontrol Systems, which is building the VTS system for Oslofford.

Experts say an oil spill in the fjord would create severe damage to the environment and cost up to NKr800m (£66m) to clear up. Fortunately, serious collisions are rare, although near-misses are more common - the latest, between a large passenger ferry and a smaller ferry, occurred just months ago.

The Norwegian government decided in 1991 to use VTS technology in Oslofjord and other high-risk areas to reduce the chance of collisions. Marine safety depends on different bodies and this fragmentation has traditionally held back the development of integrated marine traffic management.

For example, the Norwegian Coast Directorate and the Port Authority of Oslo

M Services

& Software

separate VTS systems for their own needs.

However, they have since changed tack and are now co-ordinating their efforts and developing an integrated system that includes vessel traffic services for coastal monitoring - the task of the Coast Directorate - as well as a port VTS for monitoring movements in Oslo port

The two VTS centres are. connected by a 2 megabit communications link. The integrated approach has to reduce the cost of the project, put at NKrR60m as well as share sensor data and data processing facili-

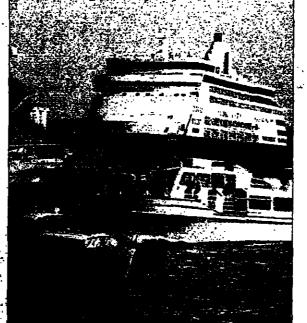
Information is obtained from a range of sensors: high-resolution radar, closedcircuit TV to identify vessels and monitor visibility, VHF direction finders, meteorological sensors and, most recently, transponders to identify vessels using a tech-Hurum, a manager with Nor- nology called Automatic Identification System.

Identification of the blins on a VTS radar screen has traditionally been done manually by calling ships on the radio. But in high-traffic areas the radio calls impose quite a burden on the operator, according to Mr Hurum. AIS overcomes this and works much like the radio transponders that identify aircraft in the sky to air traf-

fic controllers on the ground. It uses the satellite-based Global Positioning System to track vessels and a transponder to relay the ships' 'call signs' to the VTS control The VTS system uses

radar as its primary information source and the radarderived position of the vessel is then checked against the AIS system to ensure the two positions coincide and identify the vessel.

originally decided to develop it can only tell you that ing, for example, sailing this summer.



Cruise liner in Osio Harbour: the busy port handles 8m p allowed the two authorities and 24m tonnes of goods a year. New techniques in maritime traffic management are included in the pan-European Poseidon project, funded by the European Comm

there is a vessel in a certain position. It tells you nothing about the vessel, says Mr Hurum, who sees AIS becoming particularly important for ship-to-ship communications, as it will allow vessels to identify

The integrated VTS system being installed in Oslofjord is designed for AIS, although its use on vessels is unlikely to become manda-

themselves to each other.

tory until 2002. Much more information can be superimposed on the digital maps of the VTS screen. Real-time weather data from meteorological sensors around the fjord can be displayed along with forecasts from the national

weather service.

ecause of the complex topography of the fjord, current and wind conditions vary considerably between its outer and inner parts, and so the system also displays wave and current forecasts. An expert system has been

developed to allow the effects of an oil spill to be calculated and this data can be displayed on the console. Another application is to publish VTS maps as web enthusiasts to see wave and traffic conditions on their PC screen before they set sail.

The Oslofjord has been included in the pan-European Poseidon project funded by the European Commission. This was started in 1996 to develop standards and an 'interoperability architecture' to ensure different VTS systems work together.

The aim of the exercise is to allow information on a particular ship - such as hazardous cargo information to be passed between ports when the ship leaves one port on route for another. Several EU countries are

improving their VTS systems but requirements vary widely in each country and the systems are currently incompatible. Poseidon aims to achieve interoperability between these systems at the local, regional and European level through the integration of VTS with advanced vessel communications and tracking technolo-

The Poseidon project also involves ports in Greece, the UK. Spain and Finland. The integrated VTS for Oslofford is currently being installed "The trouble with radar is pages on the Internet, allow- and should be operational

### The next issue of the FT-IT Review

The main theme of the next issue of the review on Wednesday, June 2, will highlight advances in IT in the retalling sector.

☐ IT in sport: since June is also the month of soccer's World Cup, the review will focus on the increasing role of iT in a wide range of sports, ranging from sports soonsorship to the rapid growth of sporting websites.

🗀 A third section, on managing information, will tocus on 50 years of IT, as June marks the 50th anniversary of the first computer to run with its own program, stored in memory, What will the next decade bring?

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# Better prepared for battles ahead

Sybase is aiming to break out of traditional software product areas and traditional software product areas and traditional software product areas and to restate its results for the traditional software product areas and to restate its results for the traditional software product areas and to restate its results for the traditional software product areas and to restate its results for the traditional software product areas and traditional software product areas are software product move into faster-growing markets

remains typecast as a relational database company per cent. despite his repeated as a more broadly-based

think of ourselves as a database company," he says, pre-ferring to paint Sybase as a currency. vendor of enterprise soft-

ware and development tools. Sybase, along with rivals Oracle and Informix, helped found the relational database industry in the 1980s and their products underpin most business IT systems. ing a hefty restructuring But what was once a booming market today looks a lot lovestors had only just less attractive and disap- recovered from Sybase's prepointing recent results from these three companies hint January, when it revealed it helped found in 1974. at an industry-wide slow- had incurred big loses on down in sales.

enties was contained to 11

"The whole industry is attempts to present Sybase under a cloud," says Mr Kertzman, who claims many potential customers are post- systemic risk." "I do not believe that there poning investment in new IT is a database industry any- systems because of the chal- to Mr Kertzman as he had more and I certainly do not lenges of adapting existing systems to handle the Year

> sluggish market conditions do not fully explain Sybase's disastrous financial results. Last month, it surprised Wall Street with a first-quar-

vious bombshell, dropped in

previous nine months.

t is a source of constant ally 24 per cent to \$96m com- [database] companies are tionise software develop- frustration to Mitchell pared with \$127m a year ear- driven to produce abnorment with a radically differ- Kertzman, chairman and lier. Thanks to its services mally high rates of growth ent "component" approach. chief executive officer of business, which grew and these are now harder to Sybase, that his company slightly, the fall in total rev-come by," says Mr Kertzman. "We did a thorough investigation and found the problem did not exist anywhere else or in prior years. We do not think there is any

> The news was a big blow spent 1997 painstakingly putting Sybase on the road to recovery. At the end of 1997, after three consecutive prof-However, analysts say itable quarters, the company looked to have turned the corner, finally shaking off the "struggling" epitaph that dogged it during 1996.

Mr Kertzman took control ter net loss of \$31m includ- of Sybase in July of that year following the merger of Sybase, originally just a database vendor, with Powersoft, a fast-growing software tools company that he

improper contracts from its the back of its best-selling For the first quarter of Japanese operation. Five PowerBuilder product, ybase's current financial salesmen had booked reve which has become a stanyear, revenues from software nue from contracts before dard for building clinents will be one type of licences dropped dramatic- the products were shipped to ent/server environments. component and Java will be

Java programming language, The fault is partly that which promises to revolu-

"A component approach to come by," says Mr Kertz- software development should bring two important advantages: higher quality and greater productivity through re-usability," he

> ava is one way of implementing the component model, in which large programs are assembled from smaller "components". These have been previously tested and so offer known quality and performance, allowing developers to avoid many of the headaches of software which is built from scratch.

based on the new language. believes Java will make existing development meth-Powersoft rode to fame on ods obsolete overnight. In increase the revenue share particular, he believes PowerBuilder can coexist with Java. 'PowerBuilder compo-

"If a bank were to ask me makes an easy acquisition whether to switch to Java, I target. But no potential performance of Java is one and Mr Kertzman veneral problem; another is the bat the company must find its microsoft and own salvation by identifying new market would say 'no' ". The slow

"I think customers are confused by the battle and products. so they are waiting to see how it all turns out before committing to Java," says the fence in the debate over whether Java-based network computers or traditional PCs will dominate corporate desktops in the future.

think that PCs are evil and we also support Java and

NCs," he says.
Today, database software accounts for around 70 per cent and tools just 30 per embrace Java and has a cent of Sybase's licence revegrowing range of products nues, which make up around 50 per cent of the company's But Mr Kertzman does not turnover. The other half comes from services. Mr base product, Adaptive Kertzman would like to from licences to around 60 planning (ERP) software per cent - a difficult task given Sybase's current soft or Baan, so allowing

Poor financial perfor-

opportunities and reducing its dependence on traditional

New types of software, such as "component servers" and "middleware" are poised Mr Kertzman, who sits on to play an increasingly important role in enterprise computing and encroach on the functions traditionally performed by the relational database products of Sybase, "Unlike some, we do not as well as Oracle and Informix.

These vendors are responding by transforming their traditional products into "universal" databases that can store a richer variety of information and perform more functions.

For example, the latest release of Sybase's core data-Server, is designed to link with enterprise resource from vendors such as People-Sybase to challenge Oracle's traditional dominance of the

ERP database market. Mr to link several proprietary Kertzman also talks enthusi- databases running on a astically about a version of range of hardware. "The Adaptive Server designed for interesting thing is that we Microsoft's Windows CE didn't sell them any Sybase operating system, which is database software," he says. used in mobile consumer products such as hand held increasingly lie in this type computers. "Even Microsoft of work, he believes, as does not have this," he Sybase can no longer rely on

developments, Mr Kertzman enjoyed. "Before, a Sybase claims Sybase is better prepared for harder times ahead any money unless he sold a and be quotes a recent condatabase, but that has now tract win requiring Sybase

The company's future will the steady stream of data-With these and other base licence revenues it once salesman would not make



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